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Catalog of Earth Photographs From the Apollo-Soyuz Test Project

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16. Abstract Information is given on Earth photographs obtained by the Apollo astronauts during the Apollo-Soyuz Test Project. The data are arranged in three sections. A Map Index shows the boundaries of each photograph and can be used for a quick survey of the coverage for a given geographical area. A Tabular Index provides the following data: list of photographs by serial number, description of geographic location, latitude and longitude of the center point of the photograph, date when photograph was taken, ground elapsed time, revolution number of Apollo spacecraft, approximate spacecraft altitude, tilt, Sun angle, camera, and lens. The Photographic Index provides "same size" black-and-white prints made from the original color negatives.			
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INTRODUCTION

Farouk El-Baz^{a†}

In July 1975, the Apollo-Soyuz Test Project (ASTP) conducted 28 experiments during Earth orbit. The Earth Observations and Photography Experiment (MA-136) was one of five experiments unilaterally conducted by the Apollo crewmembers. The scientific objectives of the experiment included the collection of data in support of ongoing research in the fields of geology (including desert studies), oceanography, hydrology, meteorology, and environmental science.

A detailed account of the experiment objectives, the training of astronauts, the preparation of aids for their use, and the preliminary scientific results was published as *Astronaut Observations From the Apollo-Soyuz Mission*, by Farouk El-Baz; Smithsonian Studies in Air and Space, Number 1, Smithsonian Institution Press, Washington, D.C., 1977. This publication included as appendixes the verbal comments made by the astronauts during the mission and during the post-mission debriefings, a manual of astronaut training flights, and the Earth observations book used by the astronauts during the mission.

Results of the scientific data analysis are published as *Apollo-Soyuz Test Project—Summary*

Science Report, Volume II: Earth Observations and Photography, edited by Farouk El-Baz and D. M. Warner, National Aeronautics and Space Administration, Washington, D.C., 1979. These results are given in 43 separate chapters most of which include illustrations in full color.

The present publication is a guide to usable Earth photographs obtained by the Apollo astronauts. It is organized in three sections, which may be used separately or in conjunction with each other. The Map Index shows the boundaries of each photograph, and can be used for a quick survey of the coverage for a given part of the Earth. The photograph numbers on these maps can be used to obtain relevant information from the Tabular Index, where photographs are arranged by serial number. The Photographic Index at the end provides "same size" black-and-white prints made from the original color negatives. These prints will help the reader select photographs for further analysis.

It is hoped that this catalog will serve as a vehicle to increase the interest in conducting additional investigations using the ASTP photographs of the Earth.

^aNational Air and Space Museum, Smithsonian Institution.

[†]Principal Investigator, Earth Observations and Photography Experiment.

MAP INDEX

M. A. Townsend,^a M. H. Slezak,^a S. E. Jones,^b and G. H. Kitmacher^a

The Map Index displays the ground coverage of photographs taken during the Apollo-Soyuz Test Project (ASTP) in July 1975. To facilitate use of this index, large geographic regions have been assigned a letter, as indicated in the "First Level" of the index. These regions have been further subdivided by number in the "Second Level" to correspond to the more detailed maps in the "Third Level." Major water bodies, countries, rivers, and cities have been labeled on each map to serve as

further geographical references. All maps are oriented with north at the top of the page.

Only mapping pass photographs and handheld-camera photographs containing distinguishable features are plotted. Mapping photographs are vertical, resulting in square footprints, and are easily distinguishable as fairly continuous lines of photograph numbers. The accompanying dots indicate the center points of the photographs. For each mapping pass, the footprint of approximately every tenth frame has been plotted.

In contrast, handheld-camera photographs are commonly oblique, resulting in various geometric footprints. These photographs are plotted as accurately as possible. However, due to the obliquity

^aNational Air and Space Museum, Smithsonian Institution.

^bKentron International, Inc., Houston, Texas.

TABLE I.—Ground Area Covered by a Hasselblad Camera Photograph^a

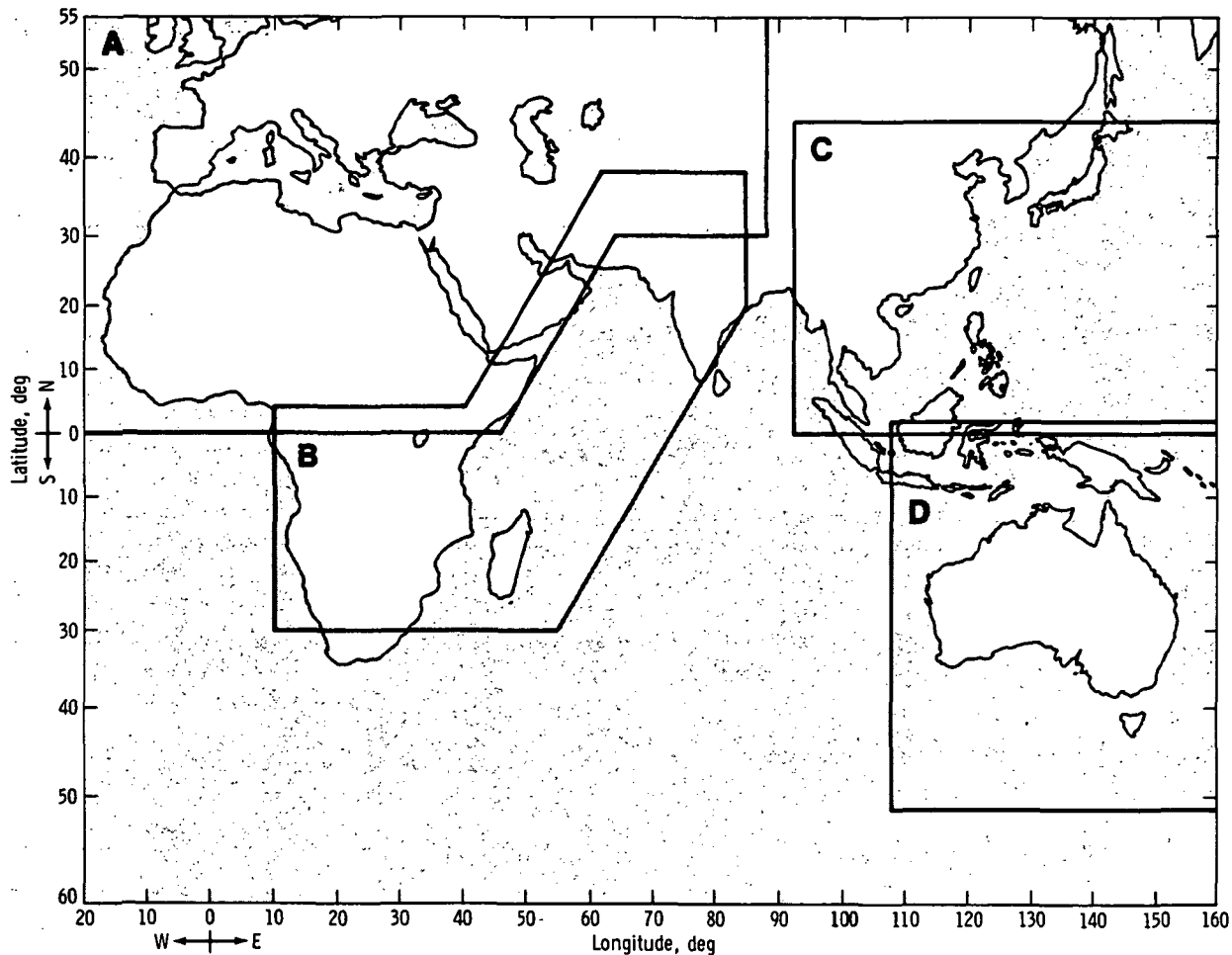
<i>Lens, mm</i>	<i>Approximate ground coverage, km (b)</i>	<i>Footprint size on a 1:1 000 000-scale map, cm (c)</i>	<i>Scale of 18 by 18.5 cm (7 by 7.25 in.) prints (d)</i>
50	250 by 250	24.8 by 24.8	1:1 395 000 (1 cm = 13.95 km)
60	195 by 195	21.6 by 21.6	1:1 162 900 (1 cm = 11.63 km)
100	120 by 120	12 by 12	1:697 740 (1 cm = 6.98 km)
250	60 by 60	6 by 6	1:297 100 (1 cm = 2.97 km)

^aThese scales apply only to vertical and near-vertical Hasselblad photographs.

^bThe ground coverage was determined from the ASTP mapping-photography computer printout (ref. 1), which gives corner and center-point coordinates of the photographs.

^cThe 1:1 000 000-scale maps were selected because of their availability to the public in the form of Operational Navigation Charts (ONC), which can be obtained from the Defense Mapping Agency, Topographic Center, 6500 Brooks Lane, Washington, D. C. 20513.

^dThe photograph scales were calculated using an average altitude of 217 km.



First Level: Eastern Hemisphere

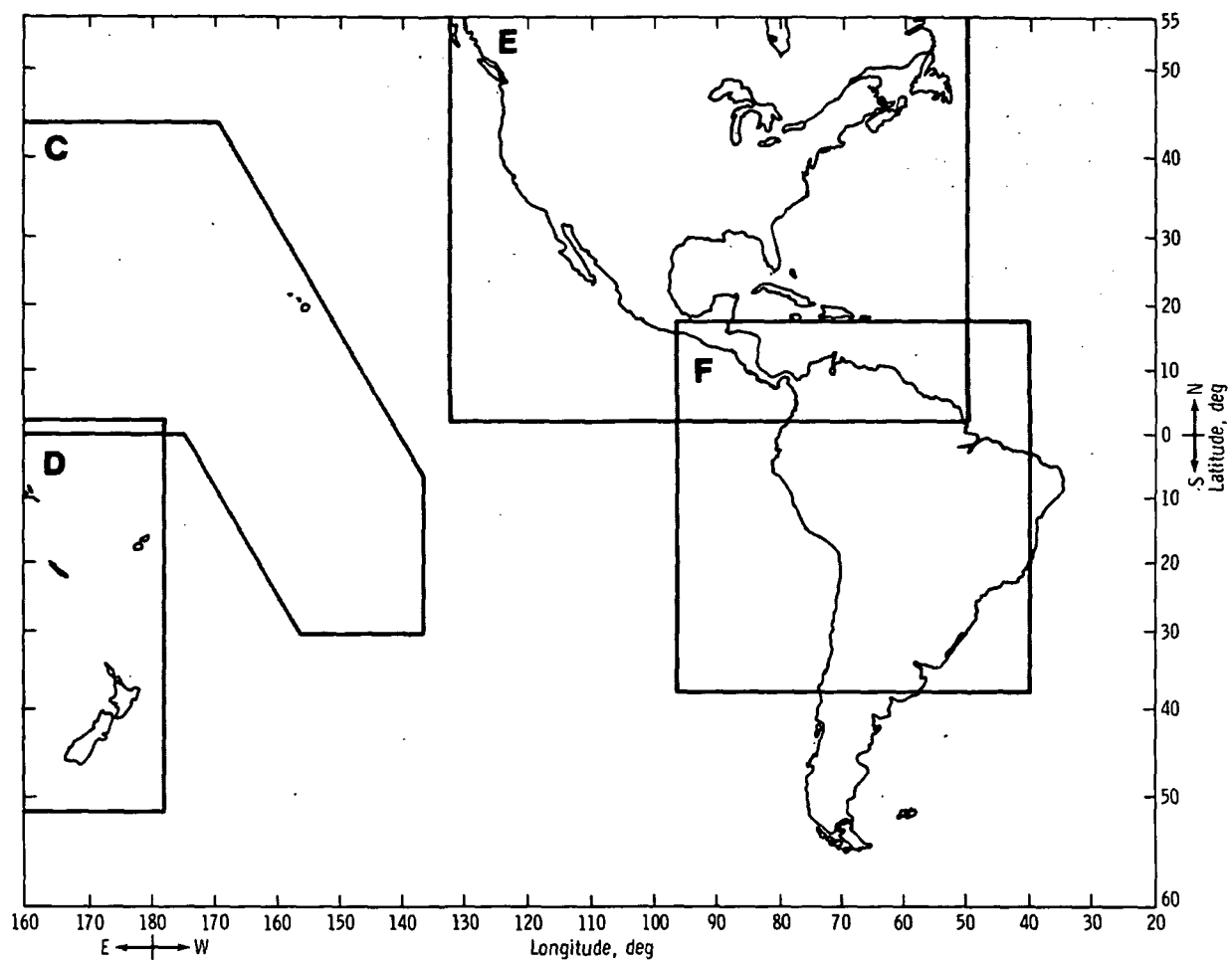
or cloud cover of many of the photographs, one or more boundaries of a footprint may be uncertain and are therefore marked with a dashed line. The direction of elongation in each footprint indicates the direction and amount of obliquity of the photograph. The photograph number is found either within the footprint of the photograph or immediately outside with a dashed line indicating the appropriate photograph. Bold lines indicate Nikon 35-mm photographs and light-weight lines indicate Hasselblad 70-mm photographs.

Table 1 provides data on the ground coverage of vertical or near-vertical photographs for each

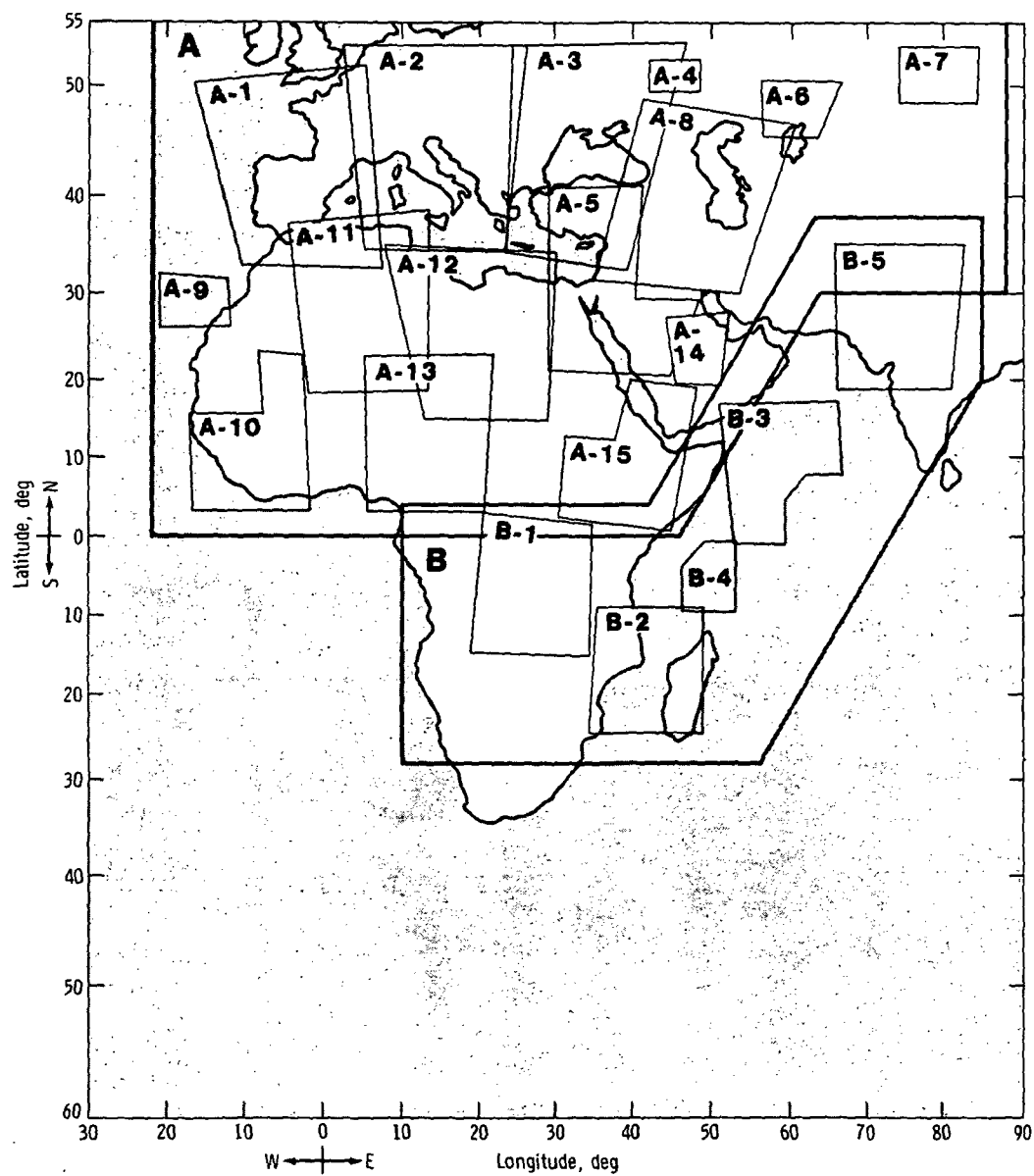
lens used with the Hasselblad reflex camera or the Hasselblad data camera. More exact geographical coordinates are given in the Tabular Index in the following section.

REFERENCE

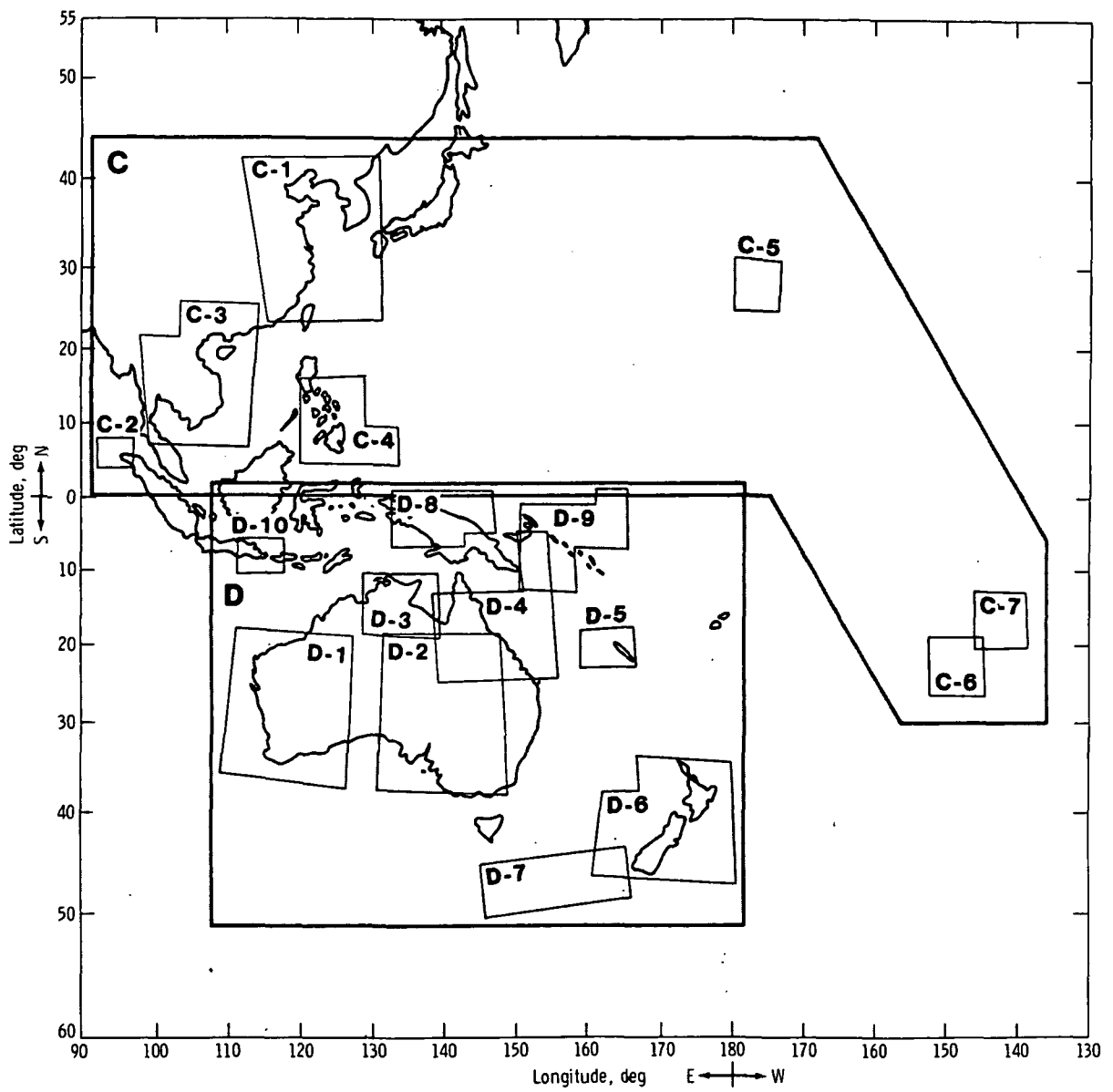
1. ASTP-Mission Computer Printout. Mission Trajectory. Available From National Space Science Data Center, Goddard Space Flight Center; ID no. 75-066A-00I for 16-mm Microfilm, ID no. 75-066A-00H for Digital Tape.



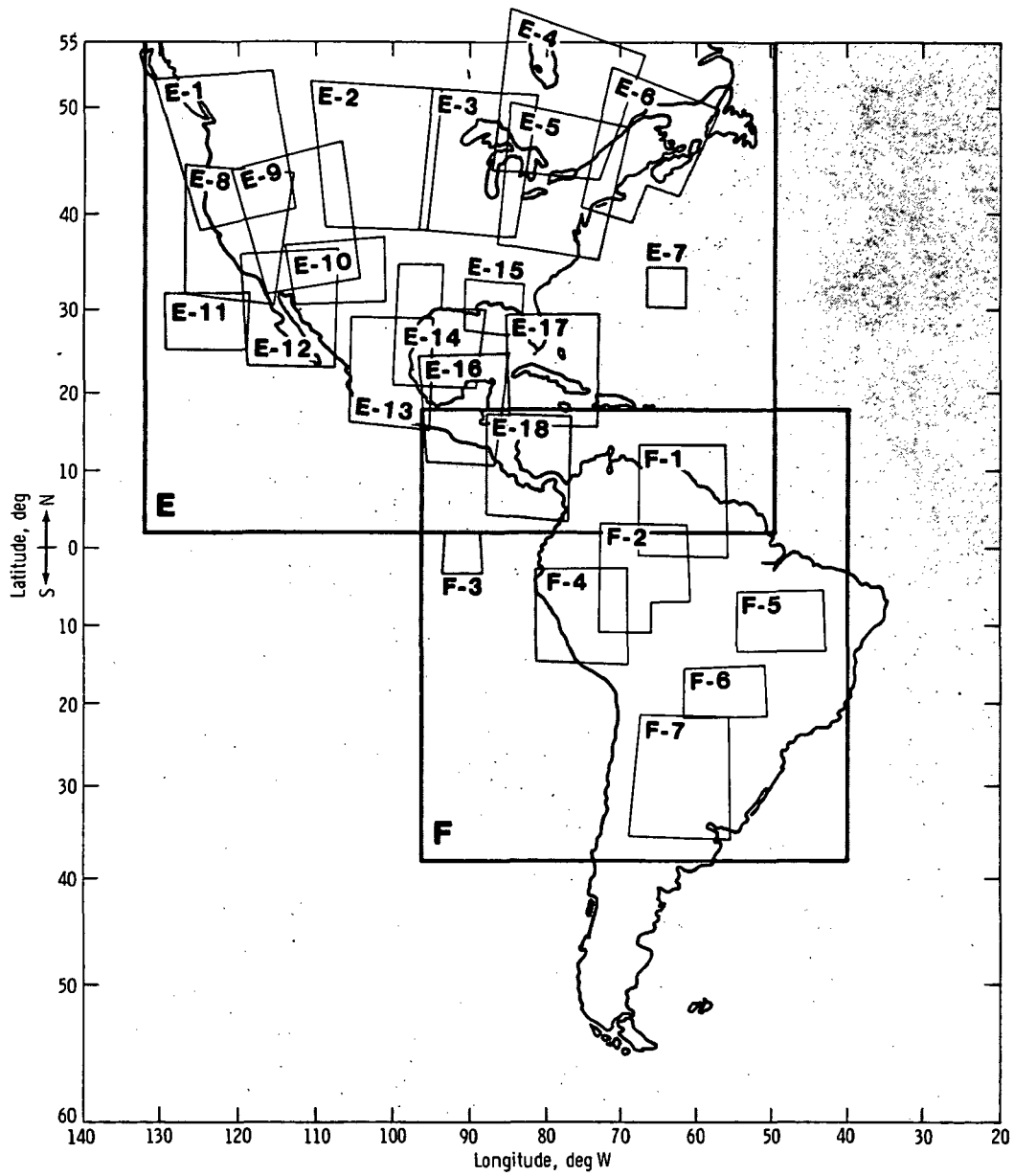
First Level: Western Hemisphere



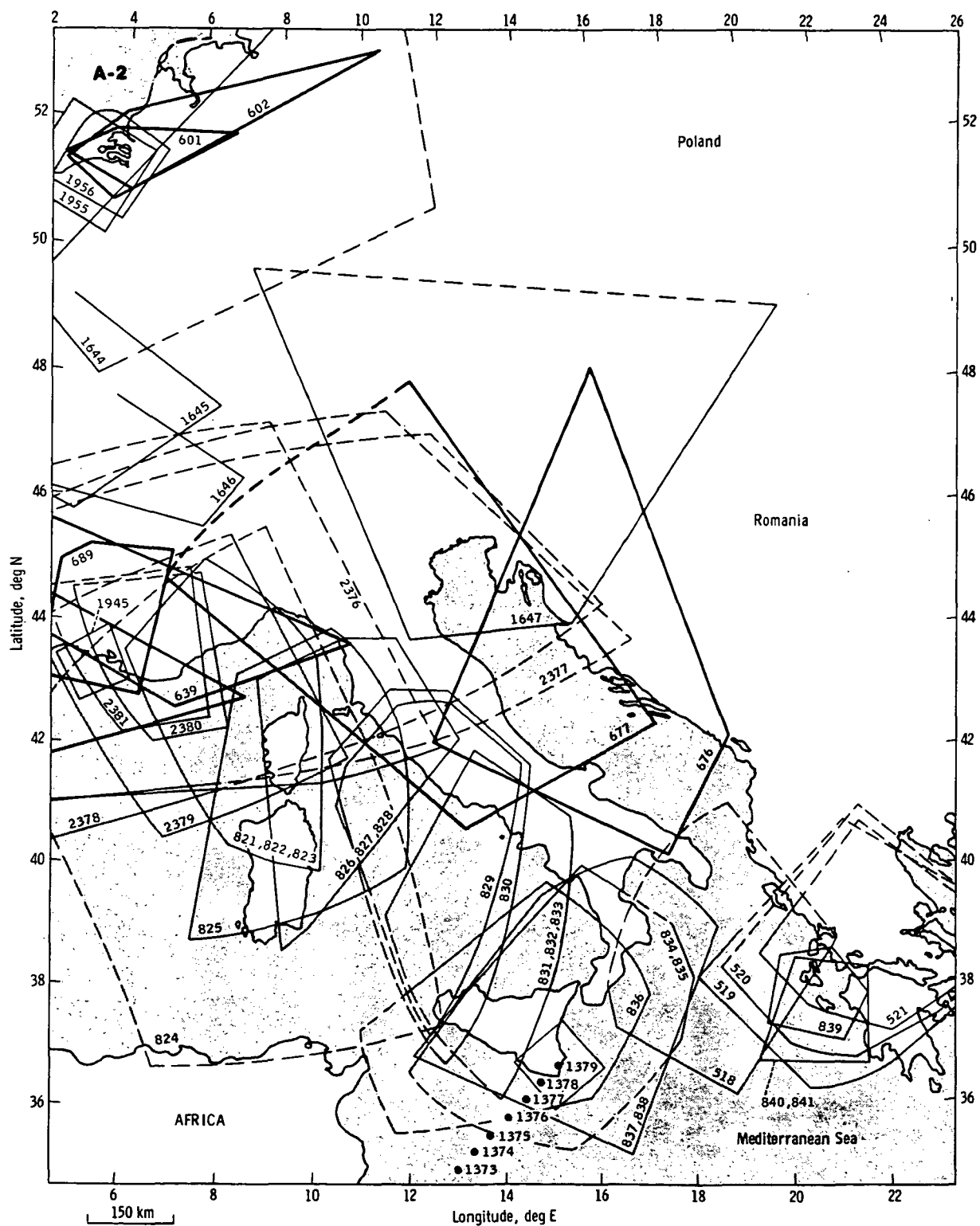
Second Level: Africa and Europe

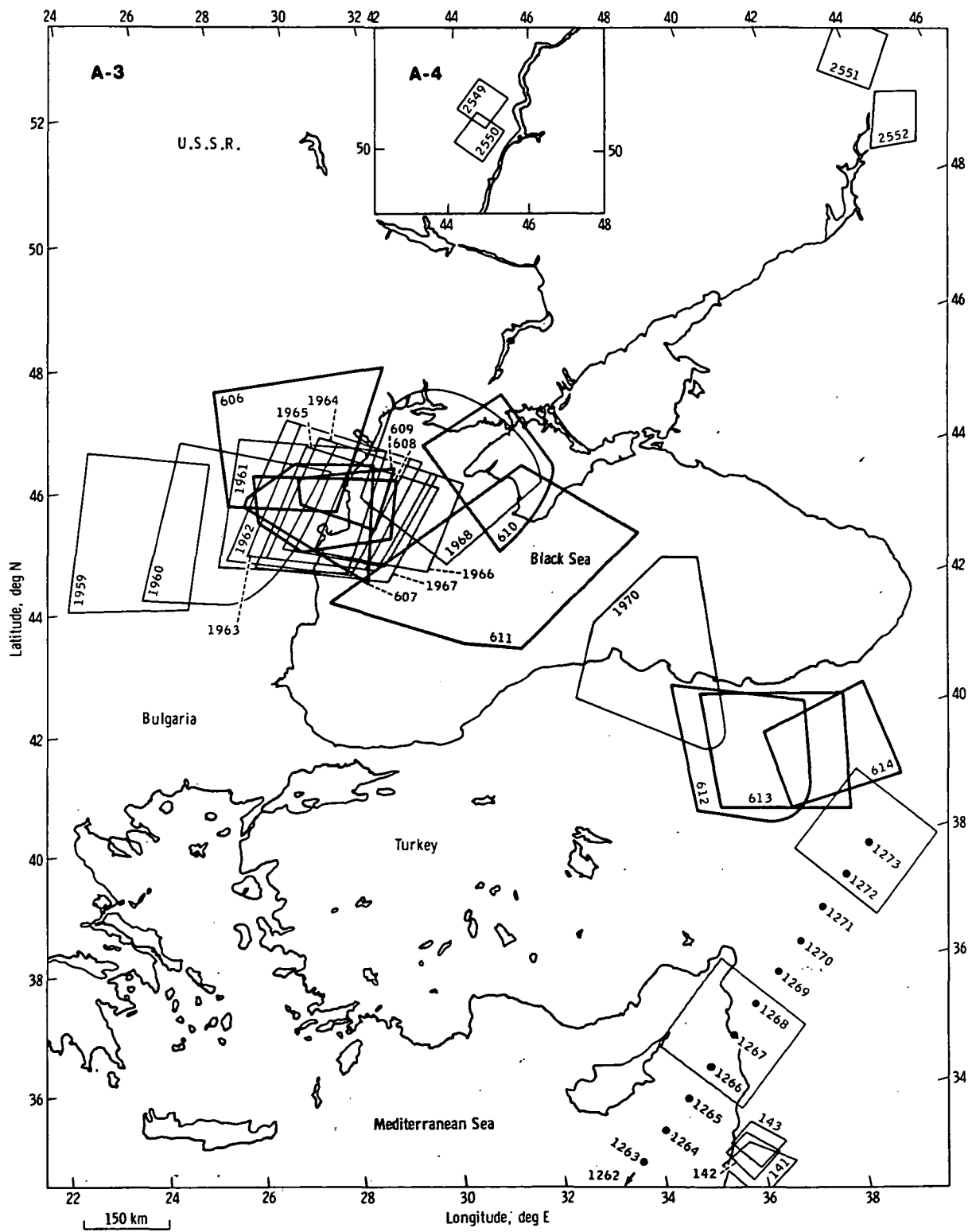


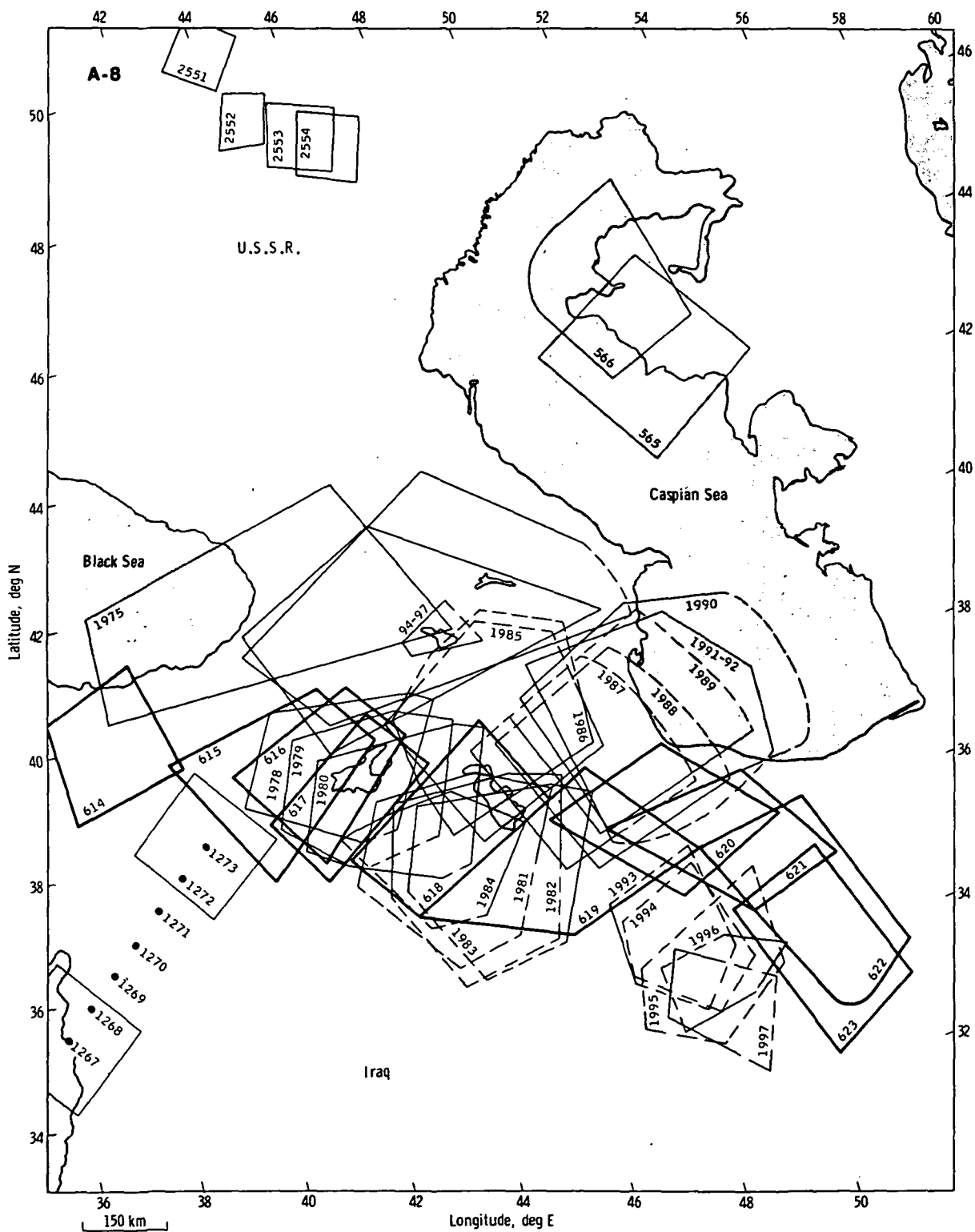
Second Level: Asia, Australia, and Pacific Ocean

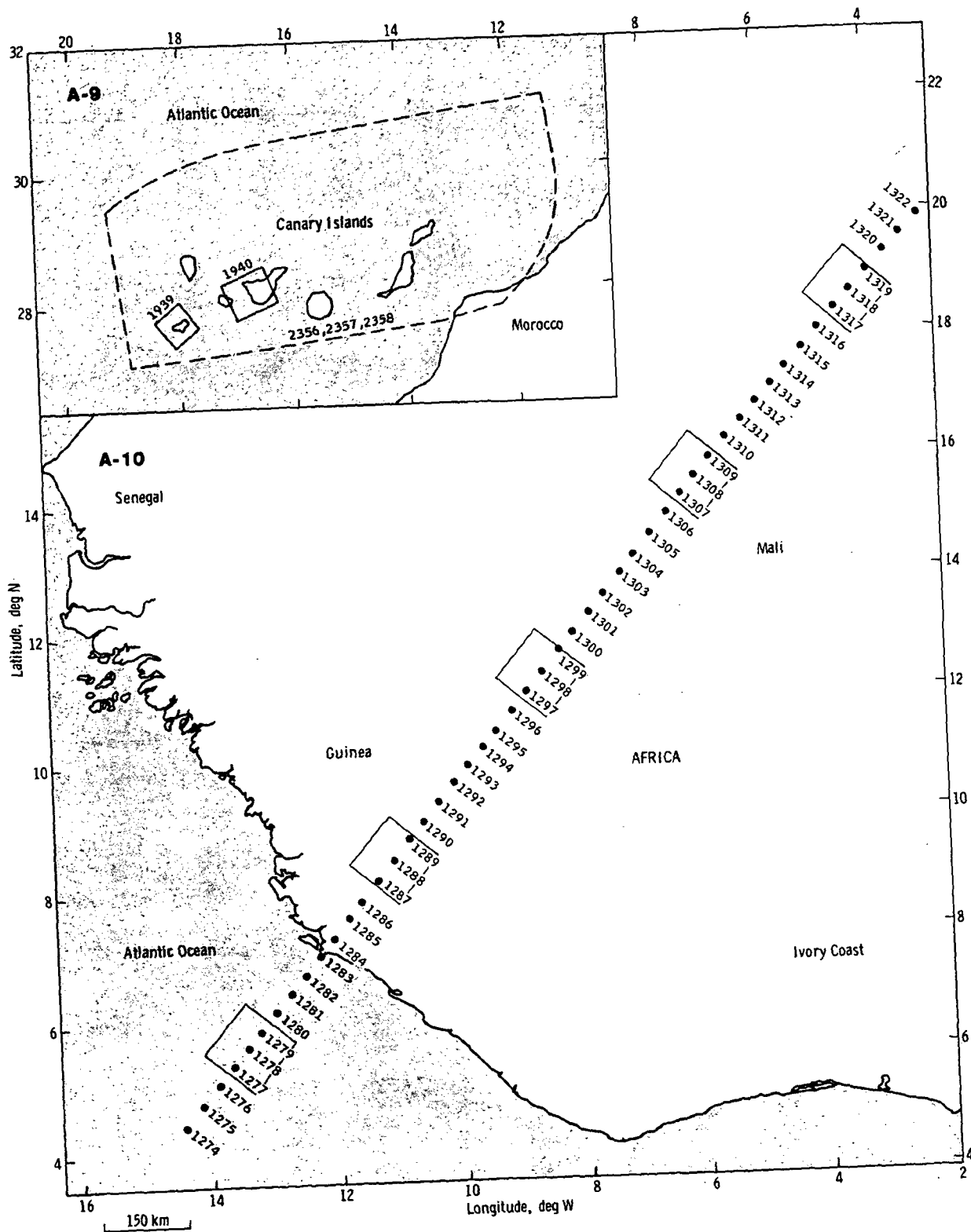


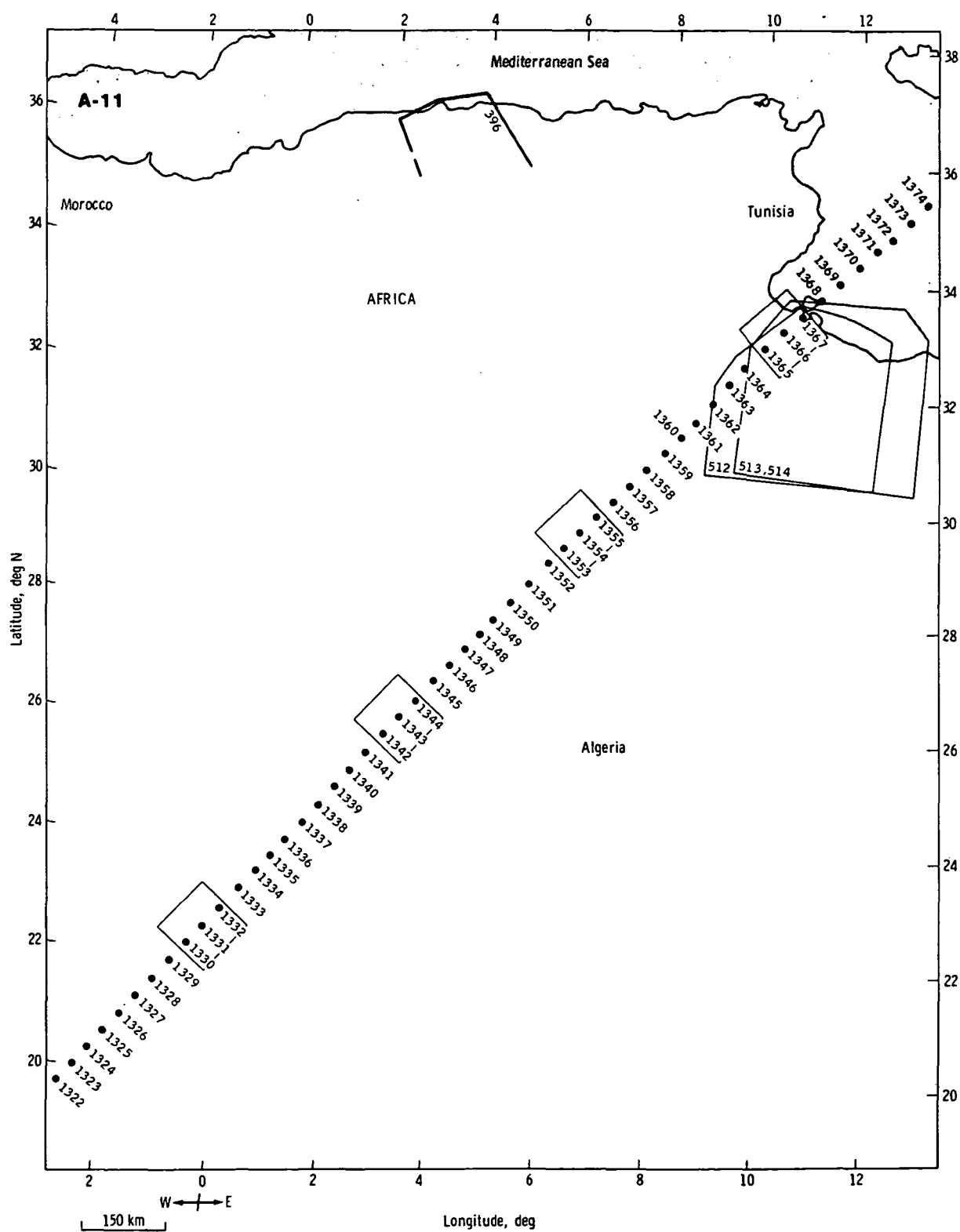
Second Level: North and South America

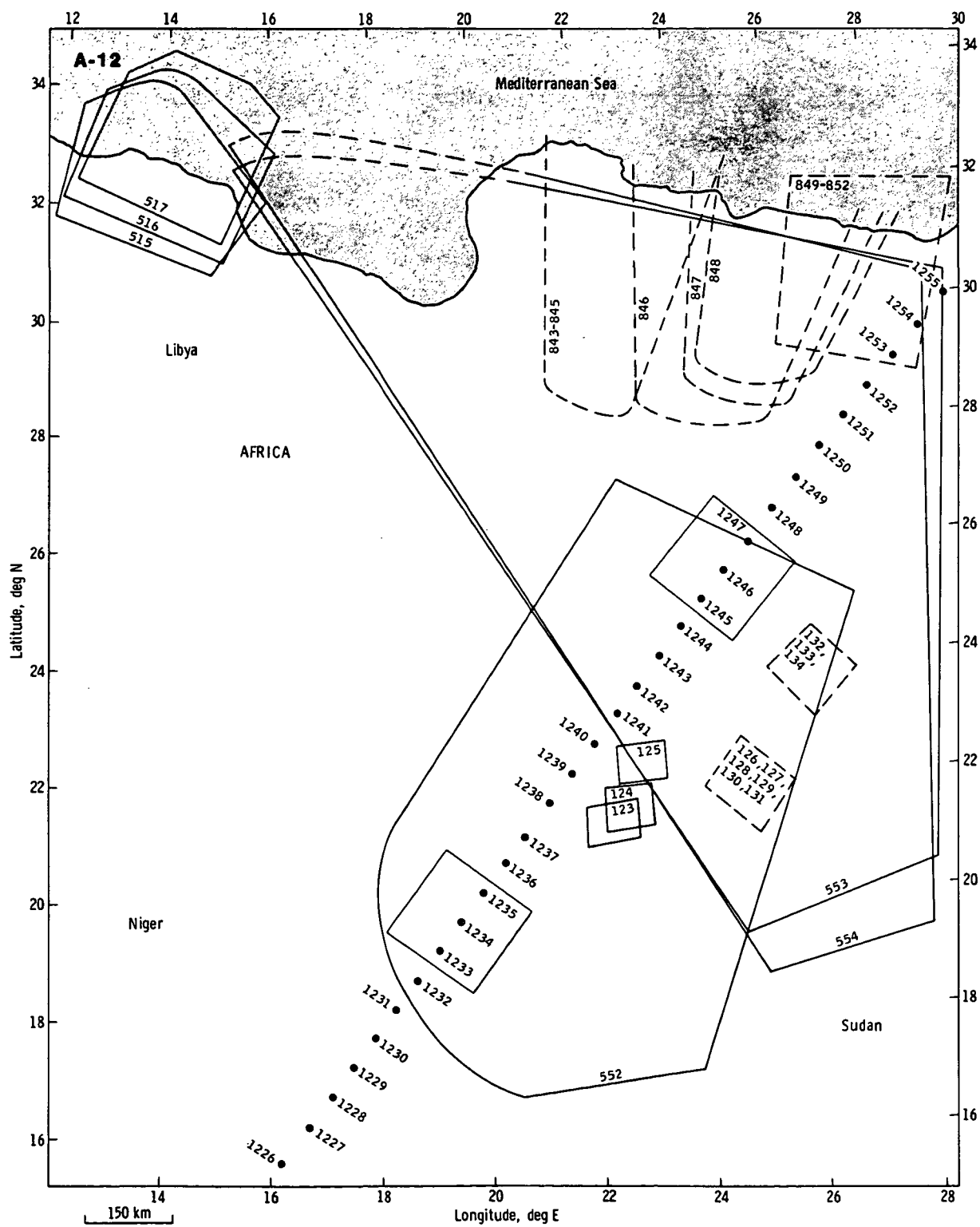


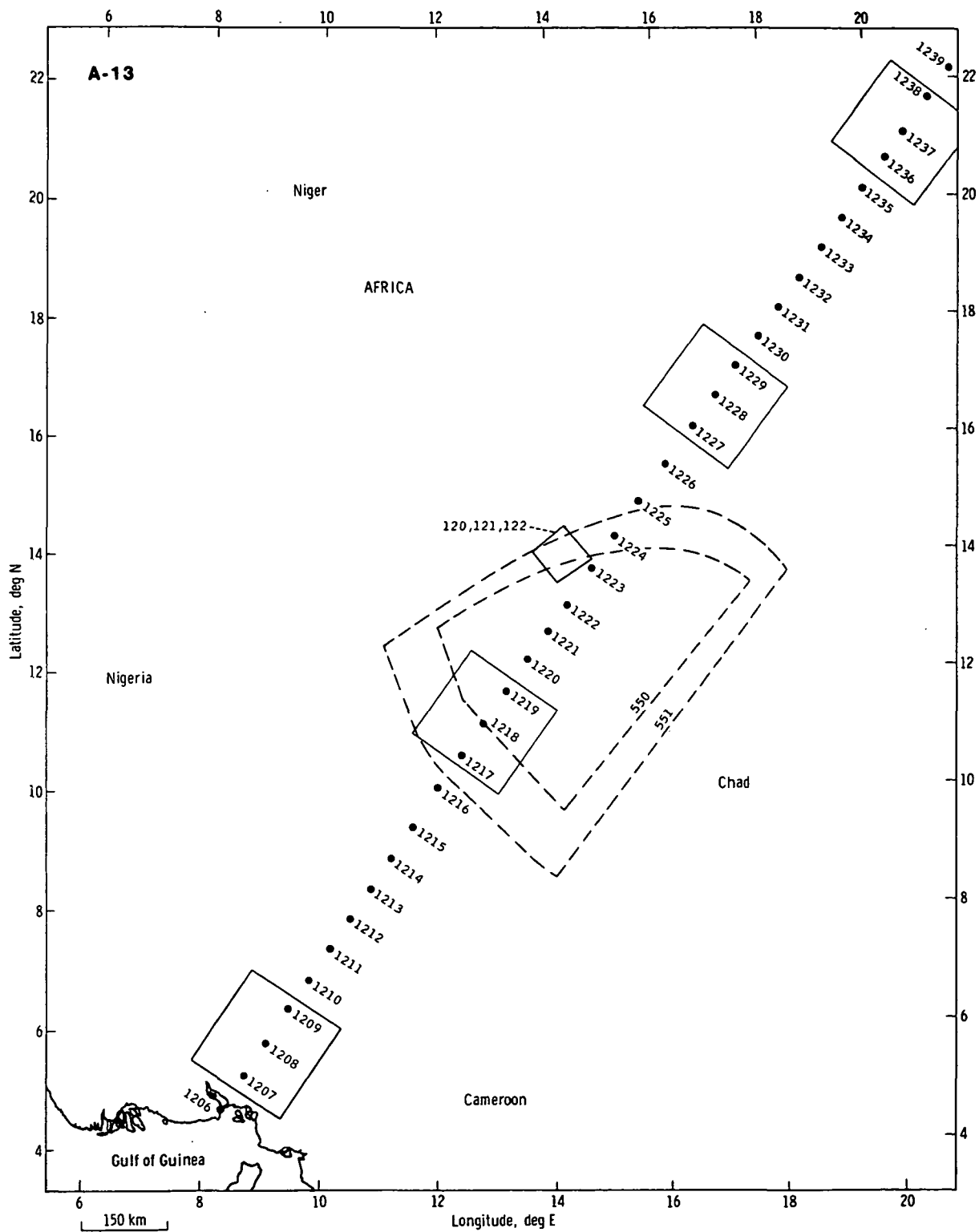


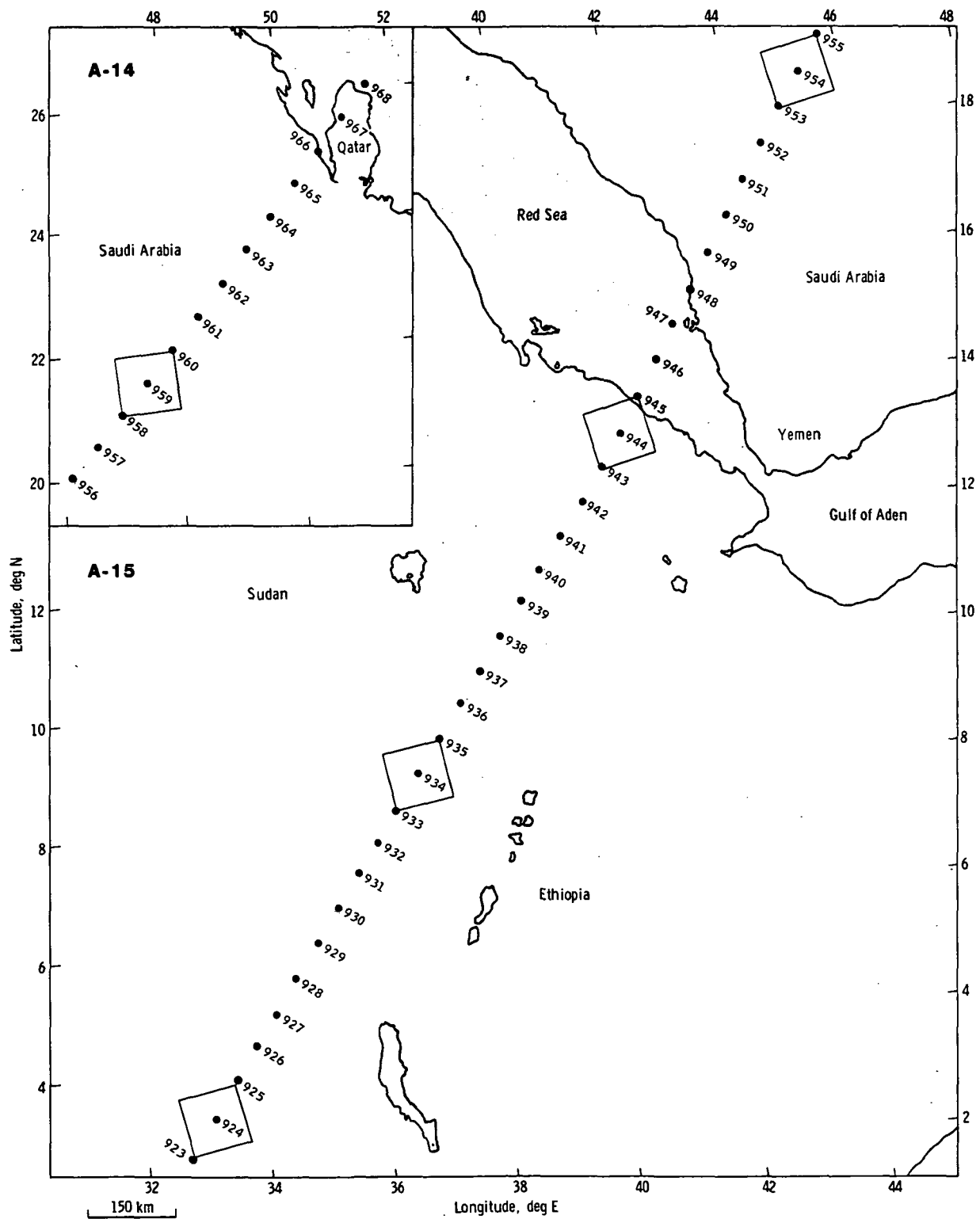


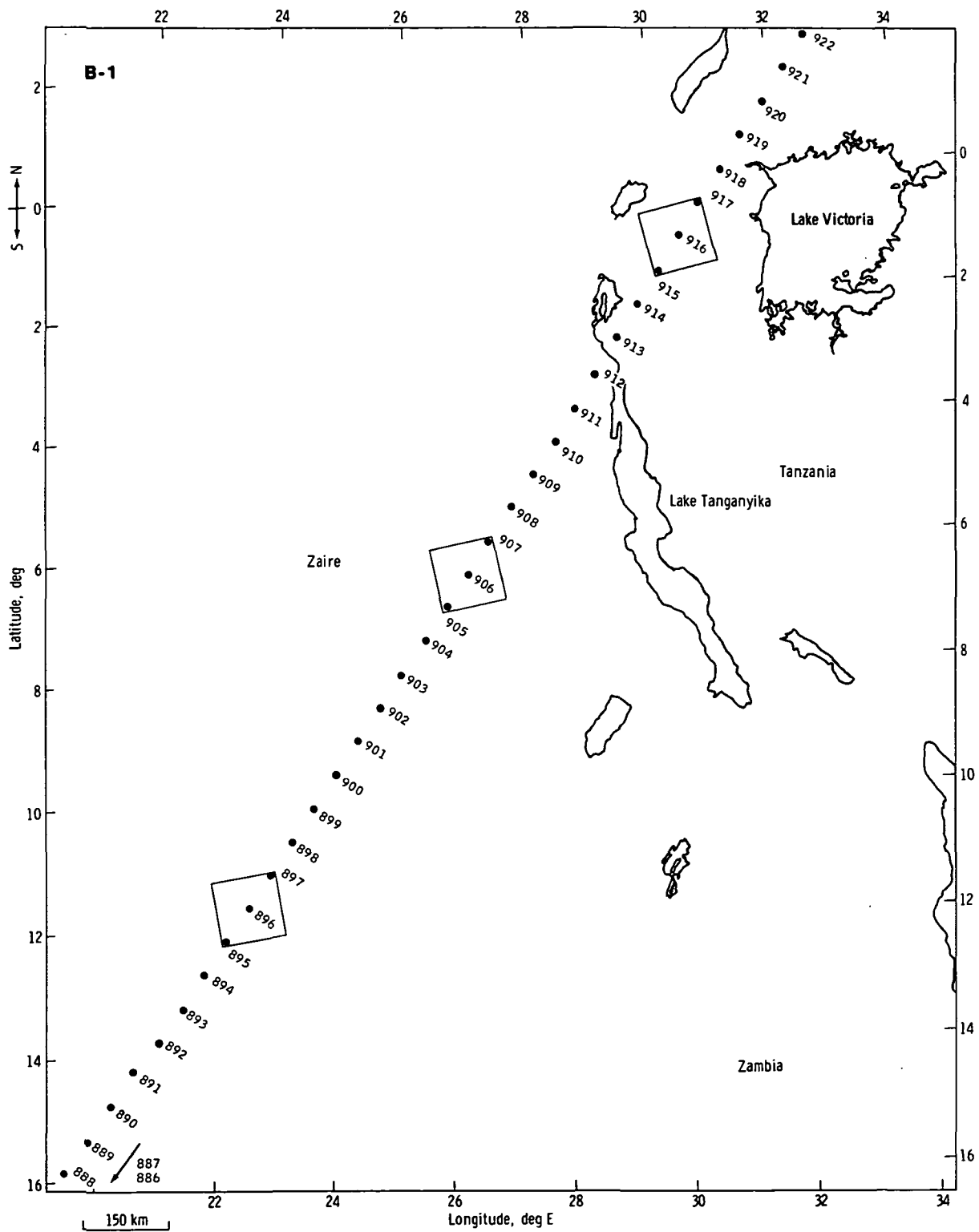


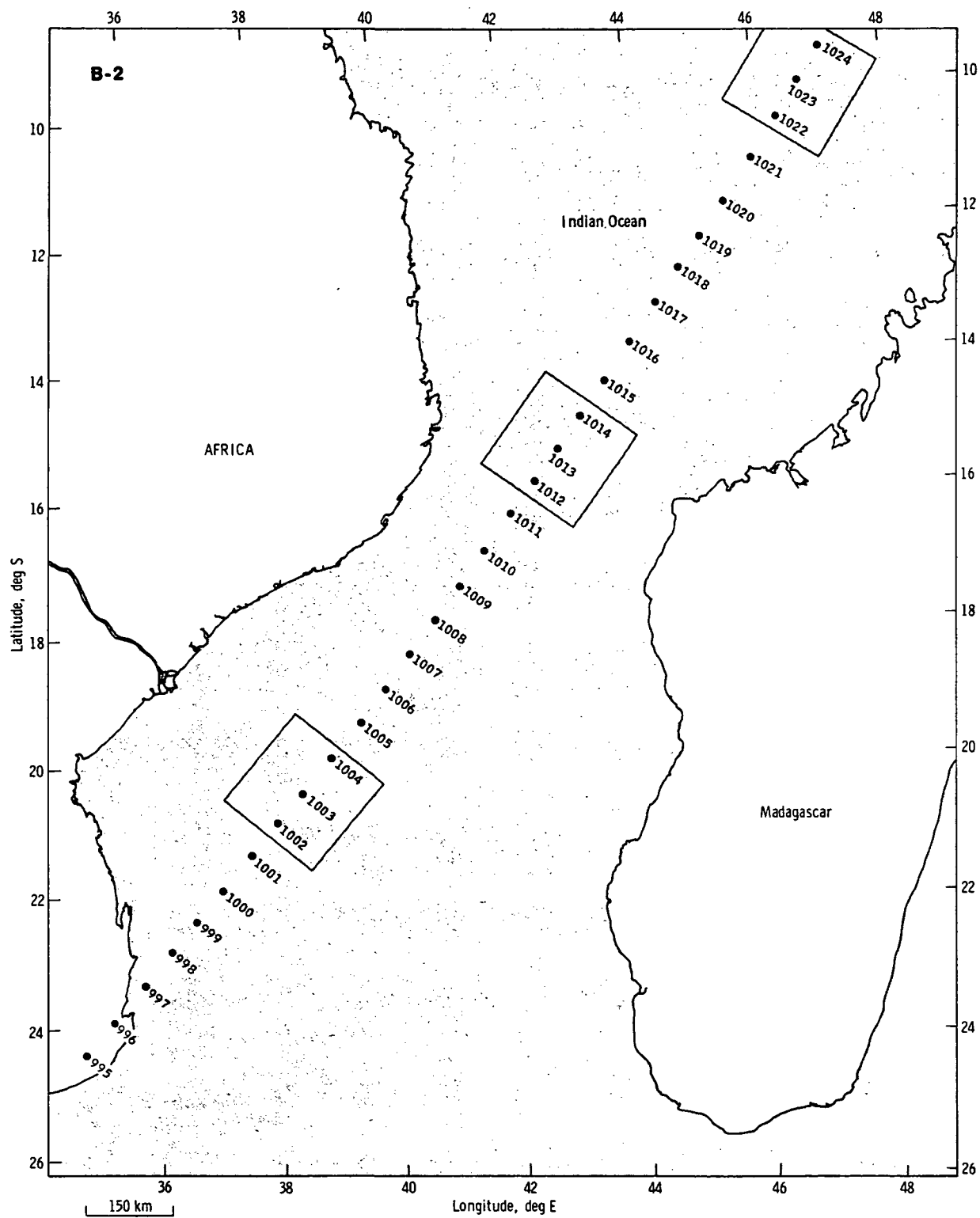


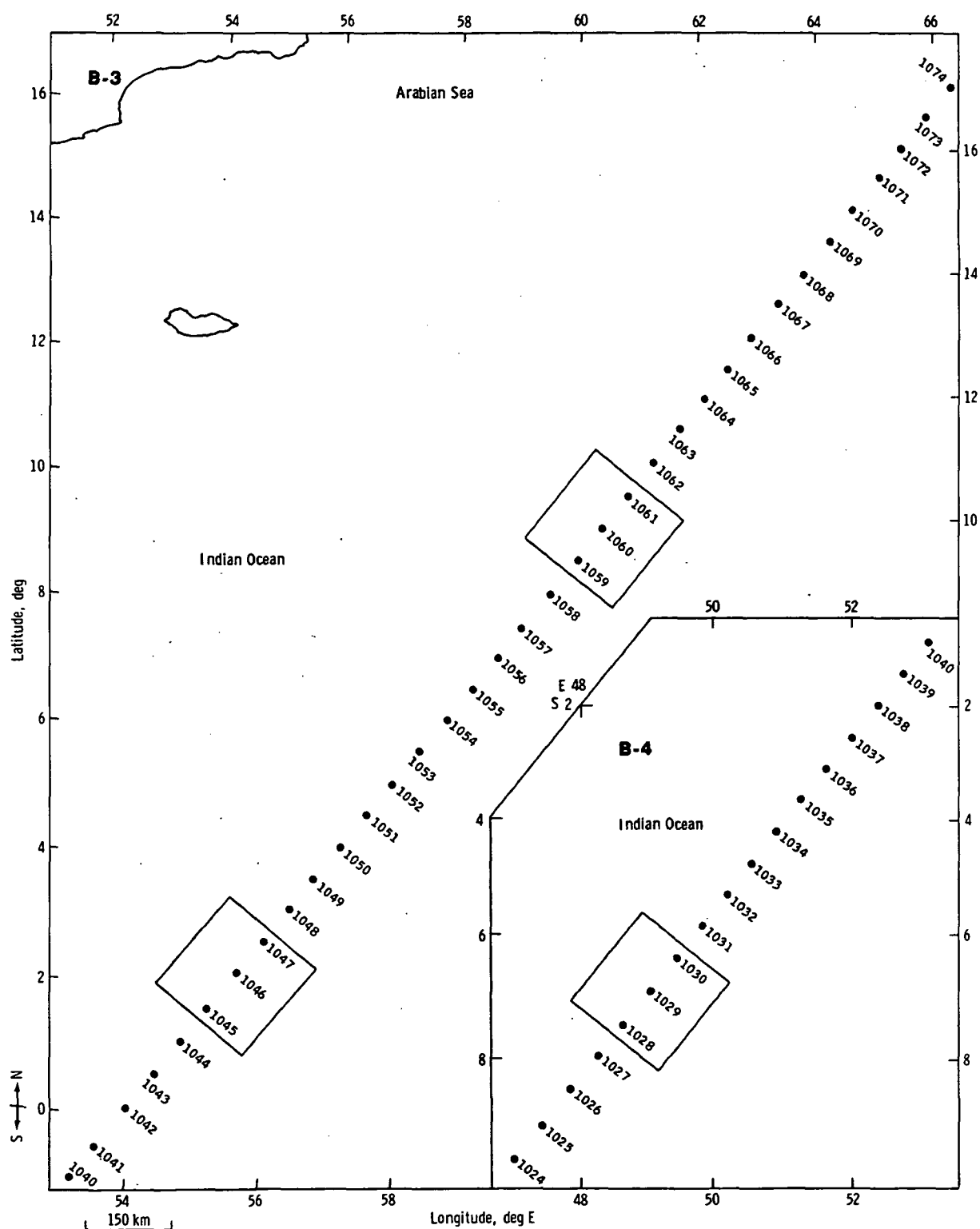


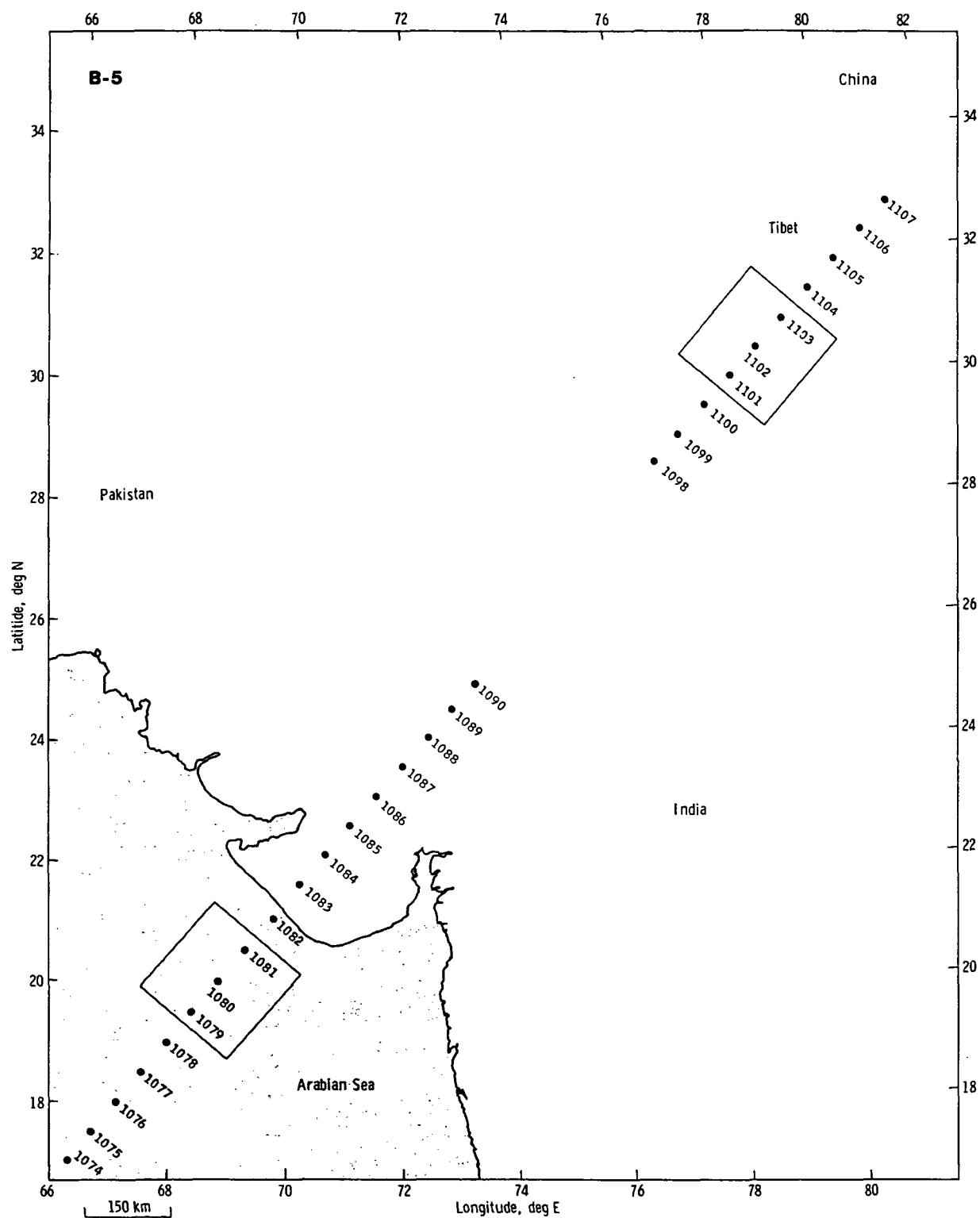


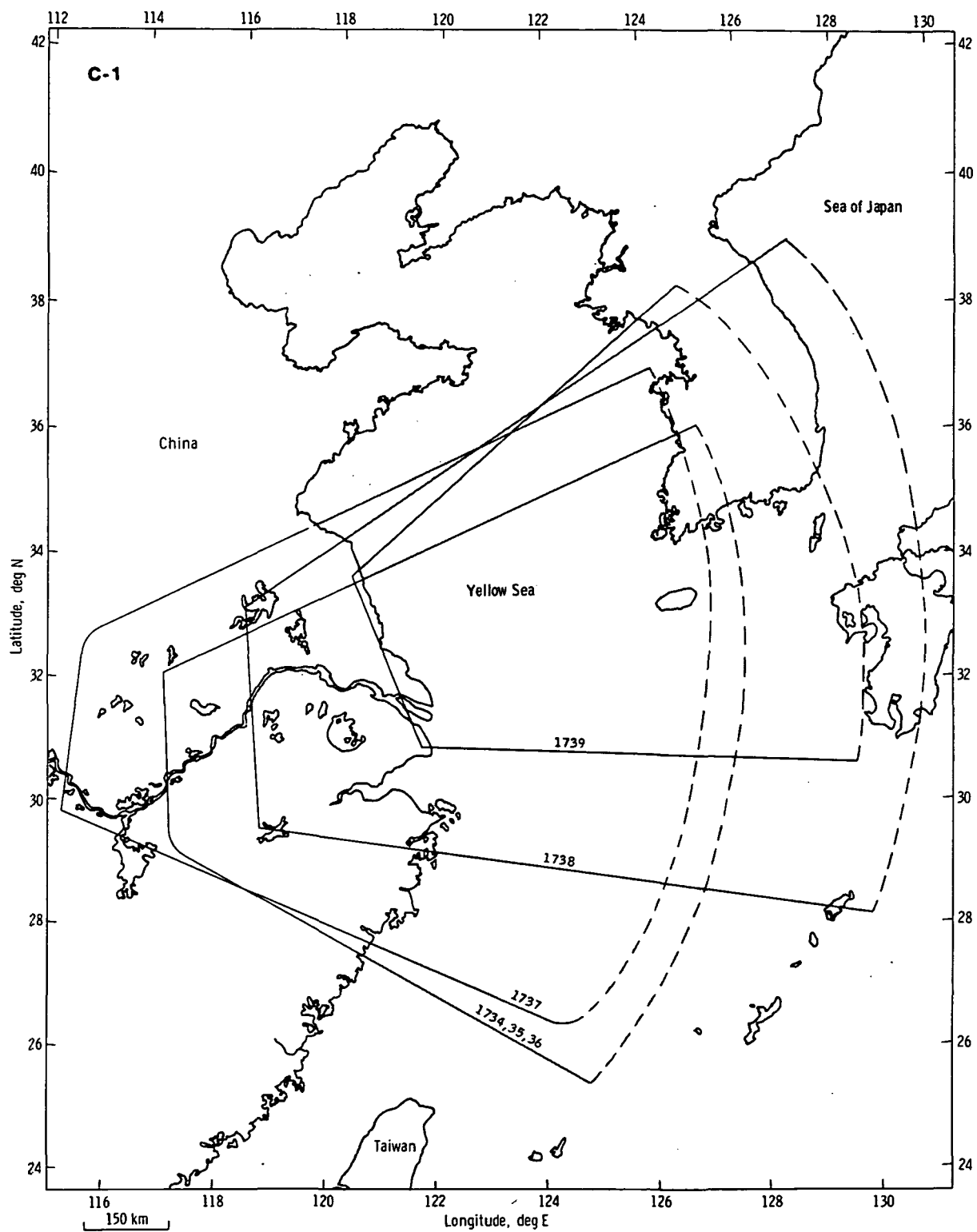


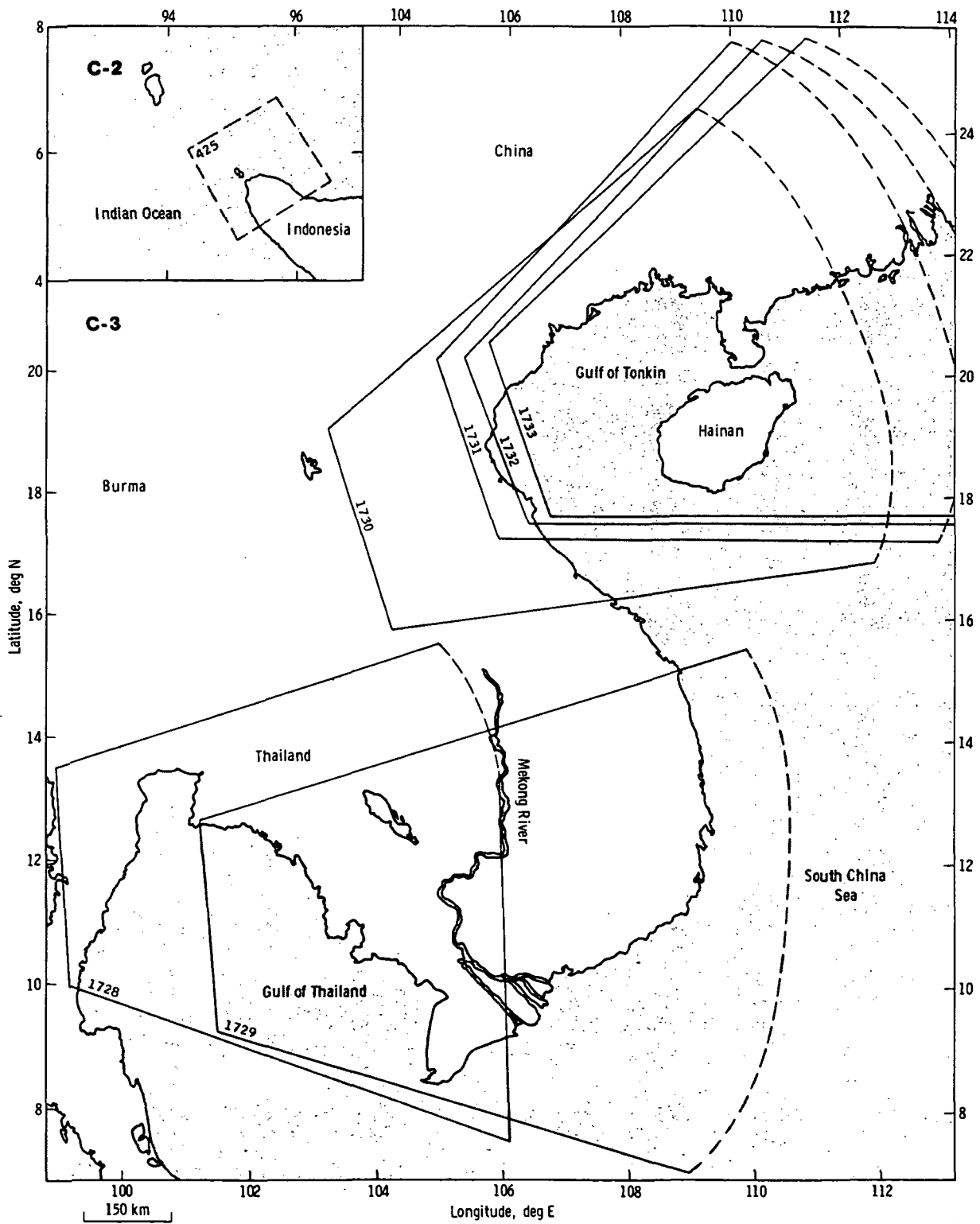


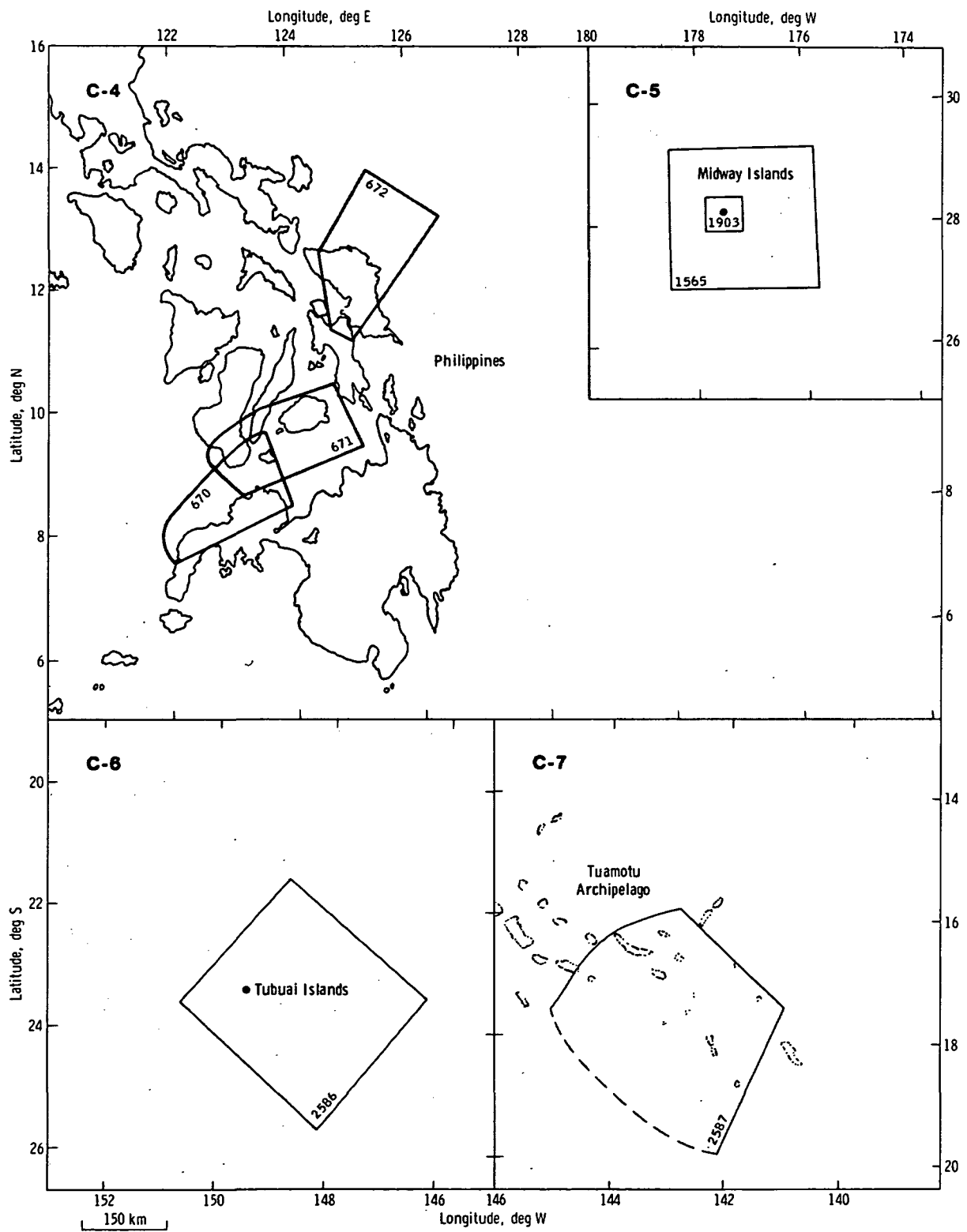


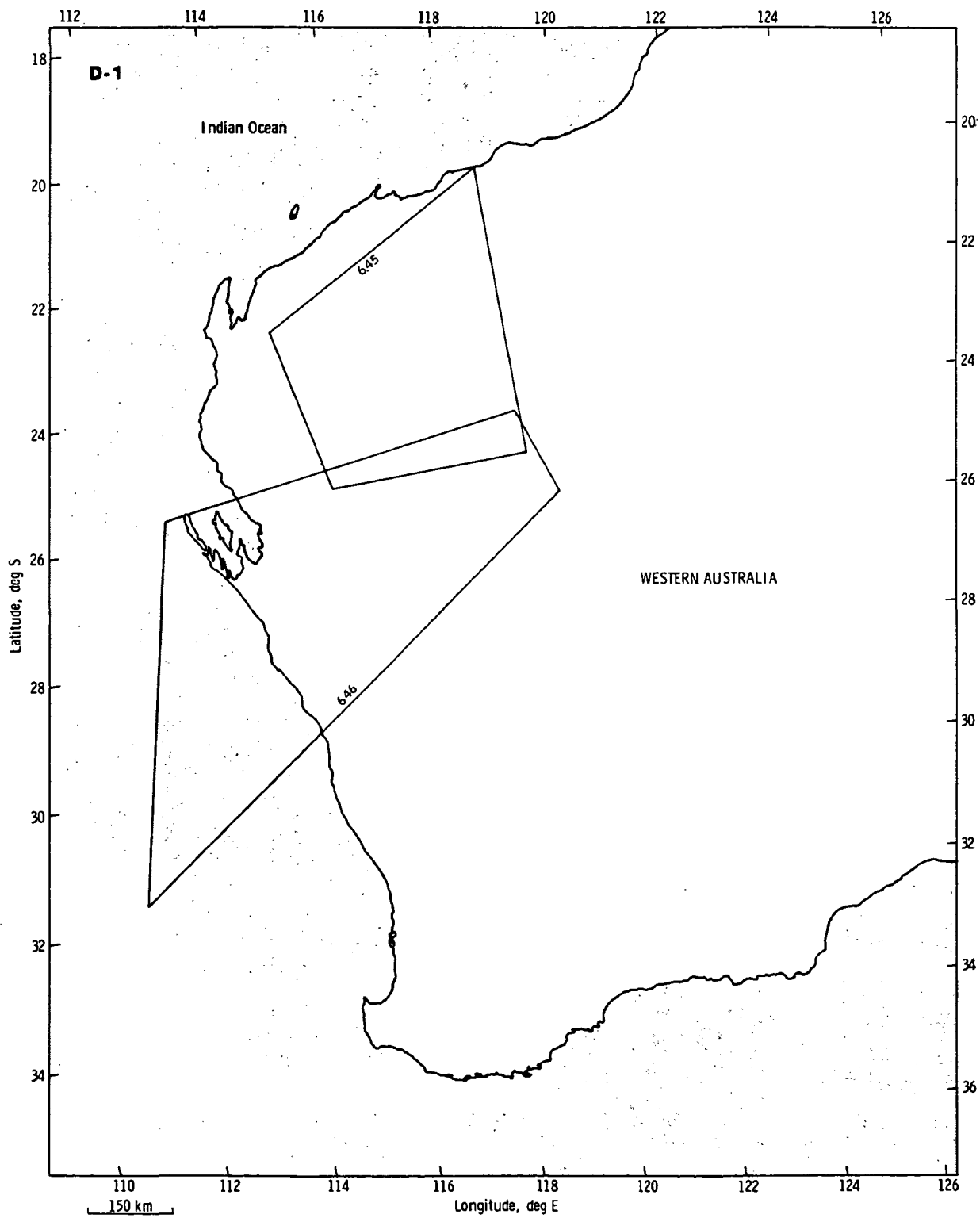


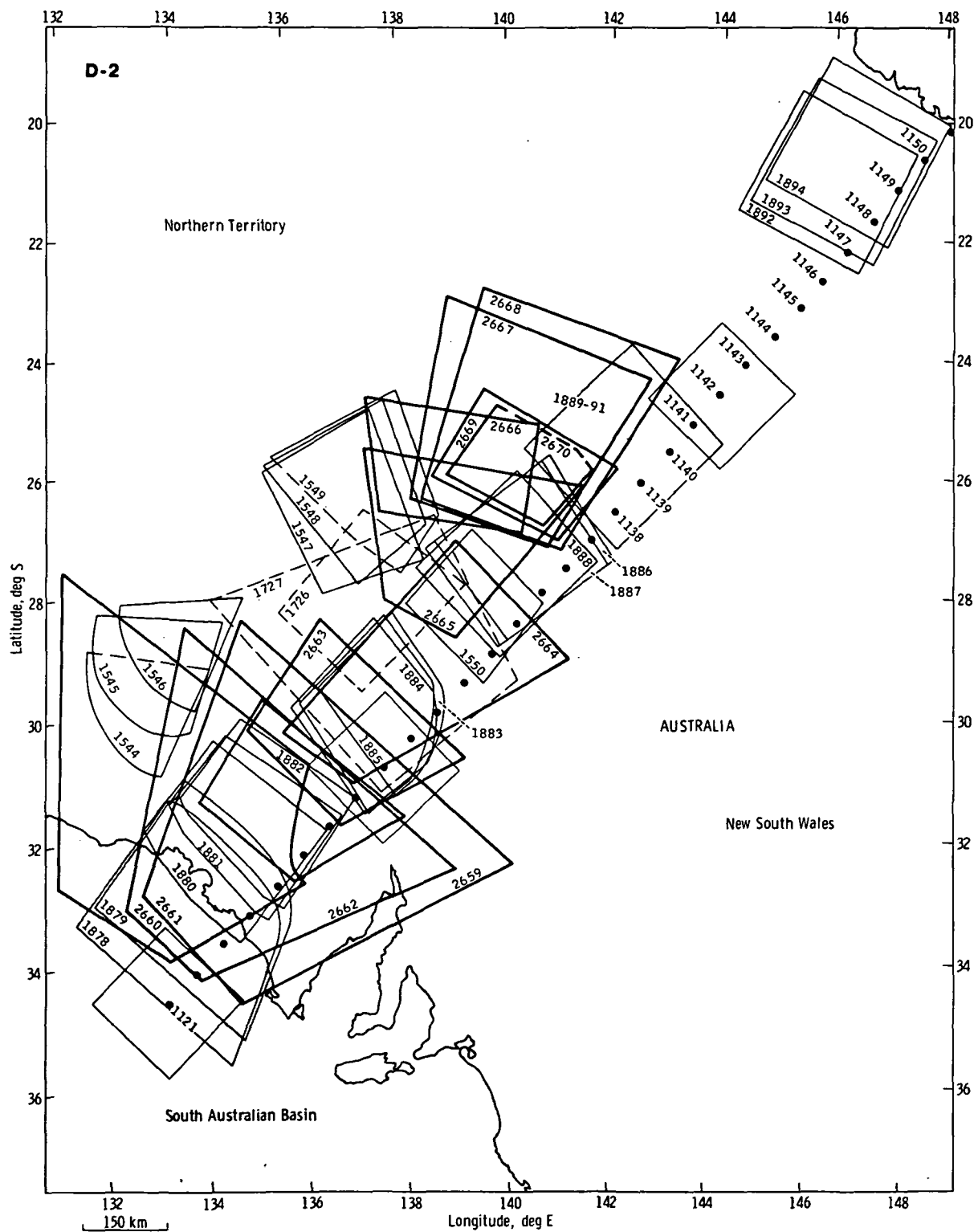


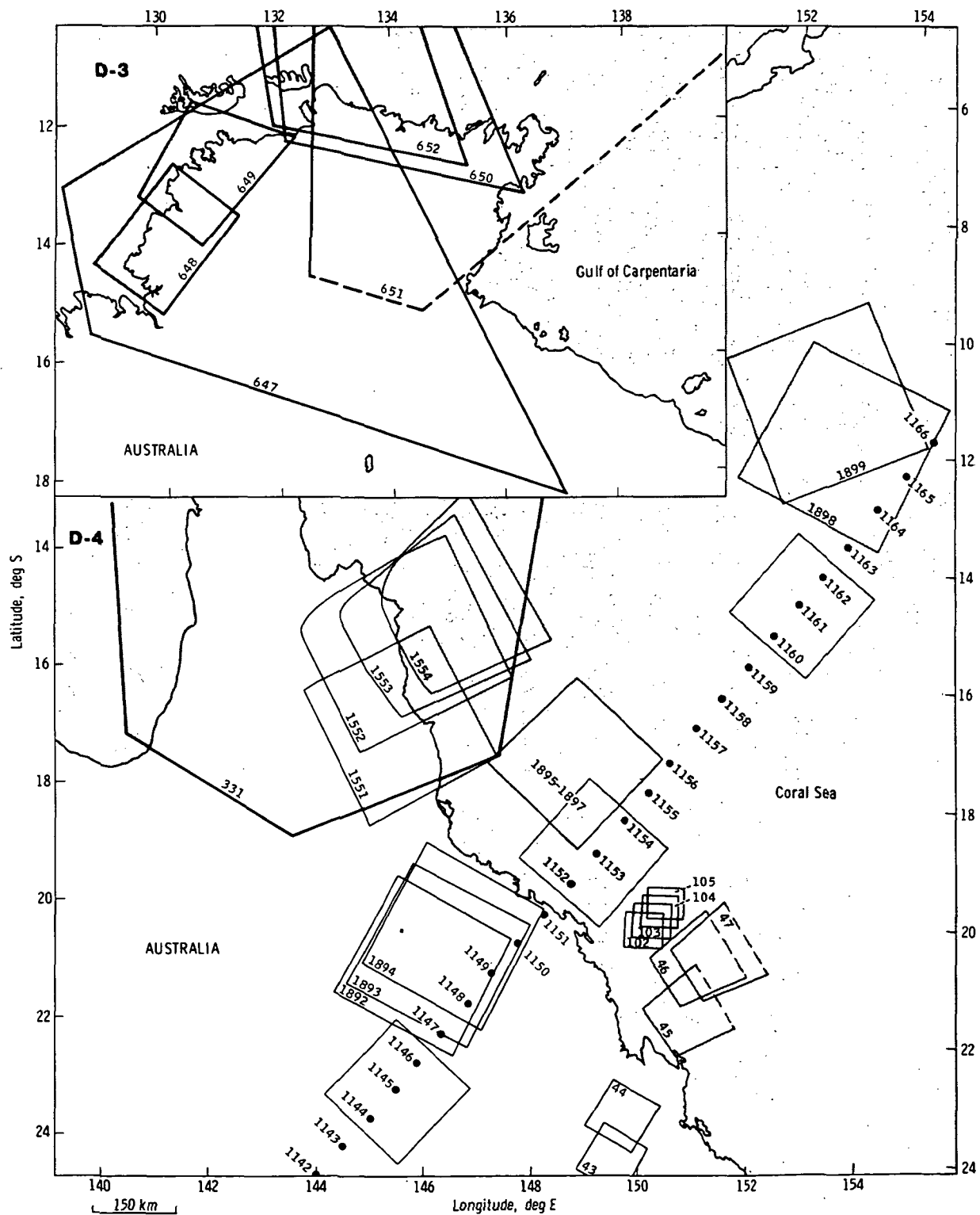


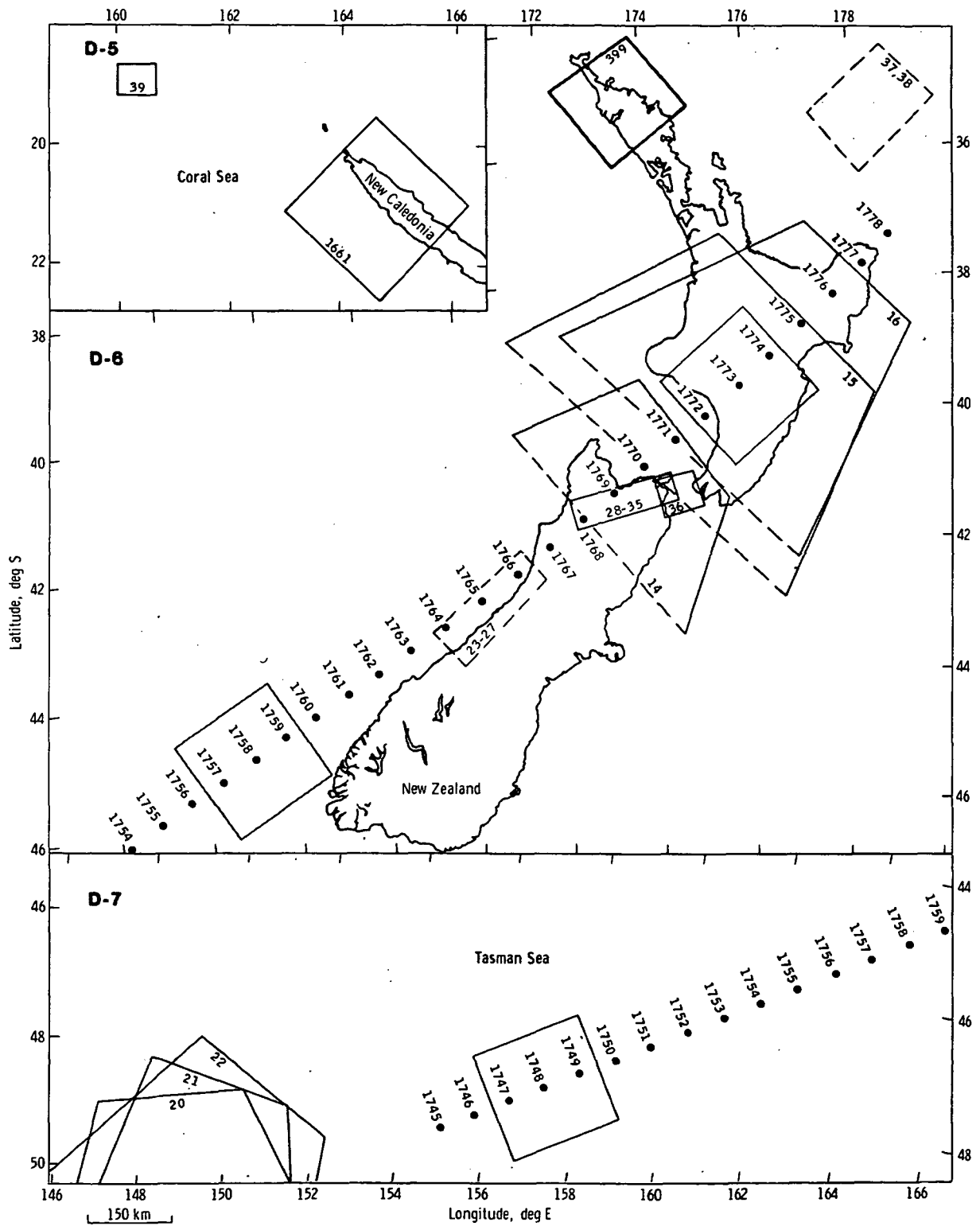


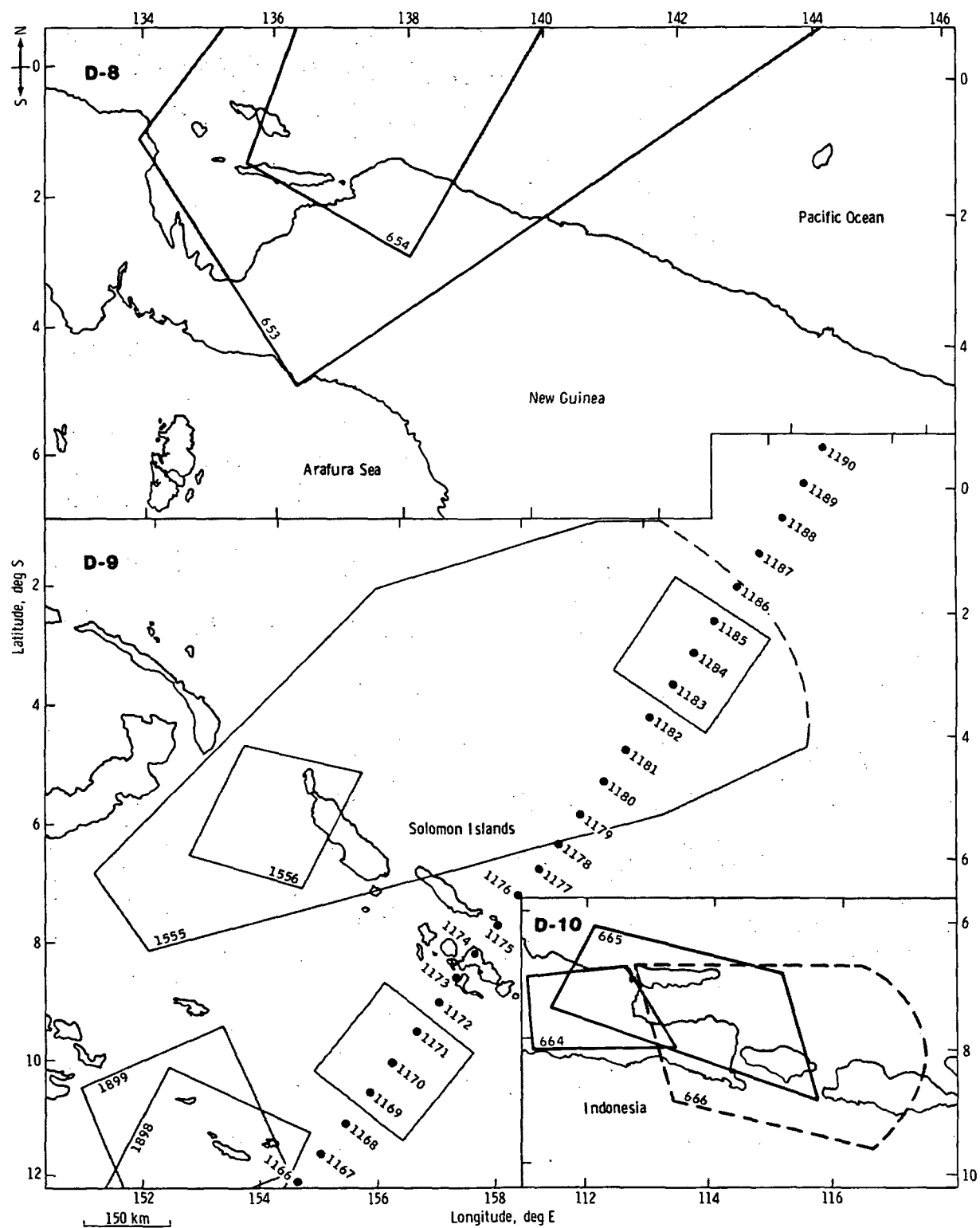


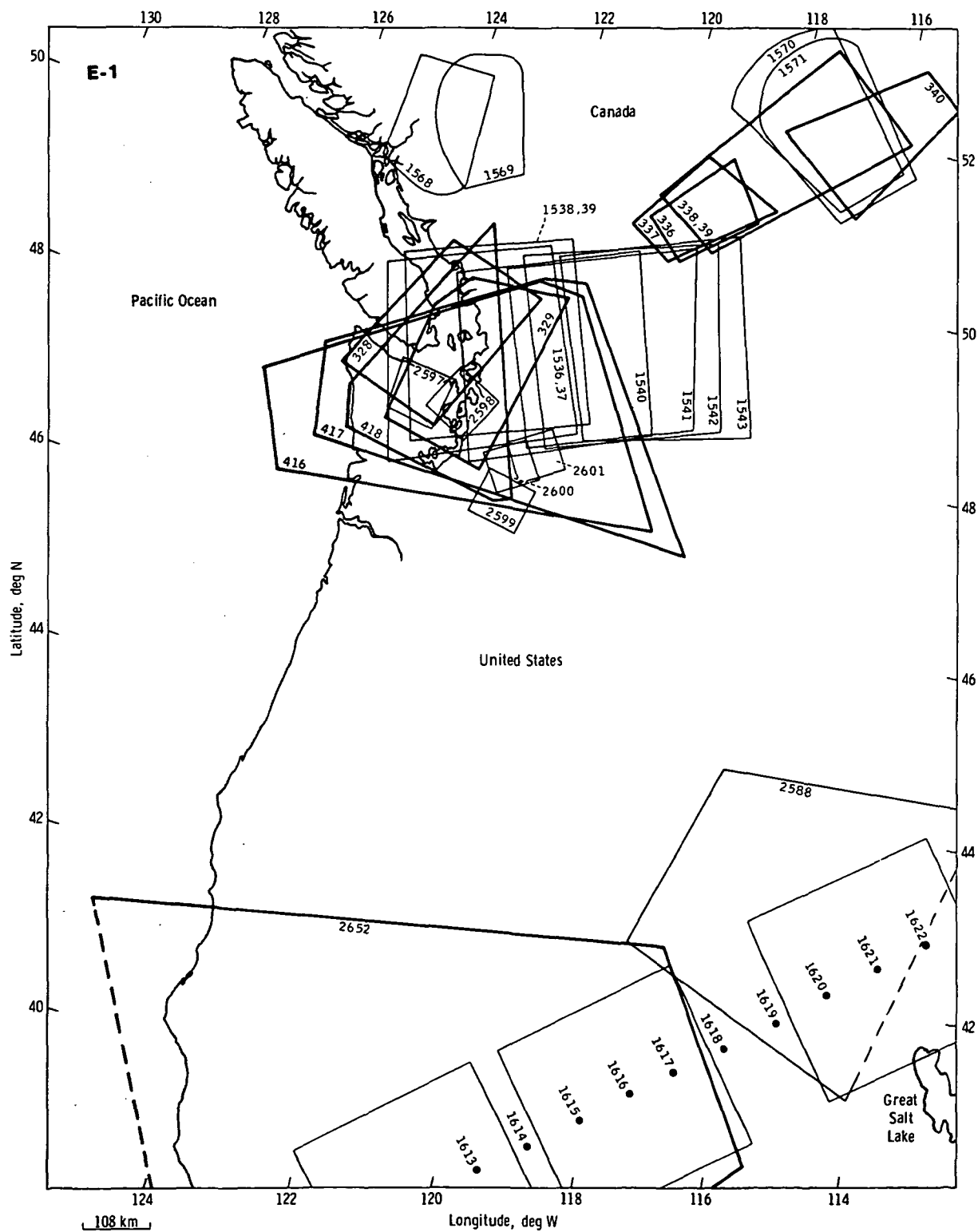


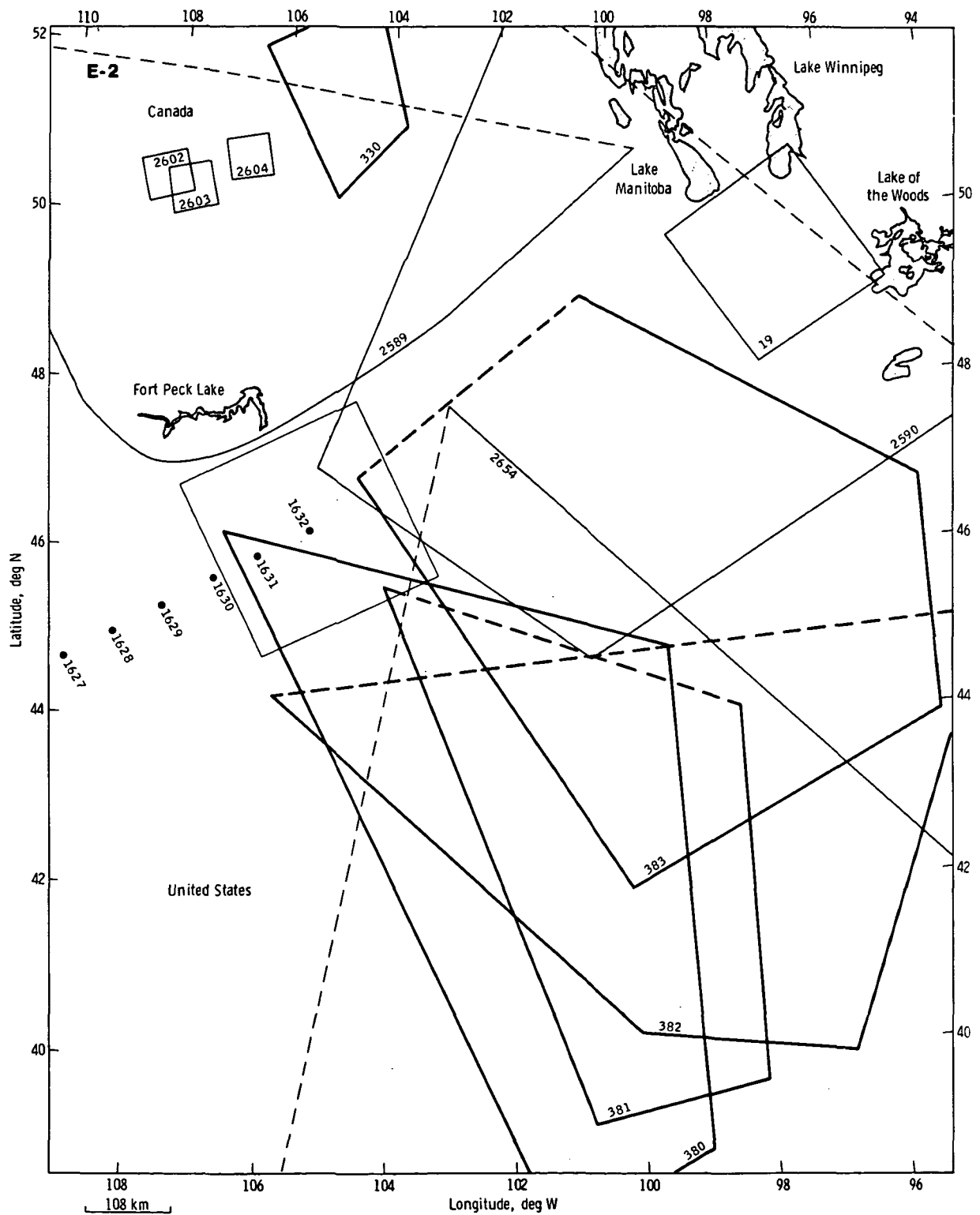


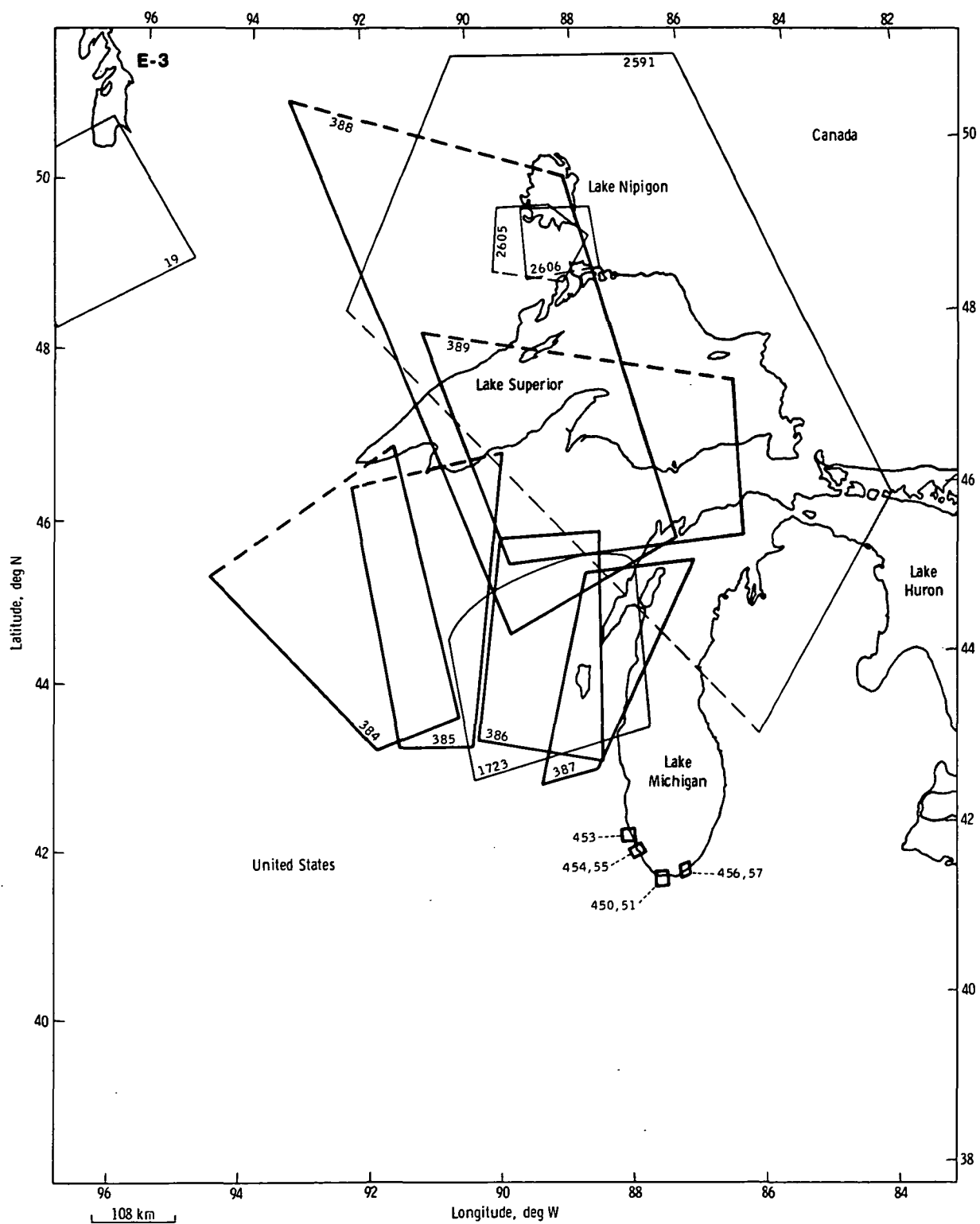


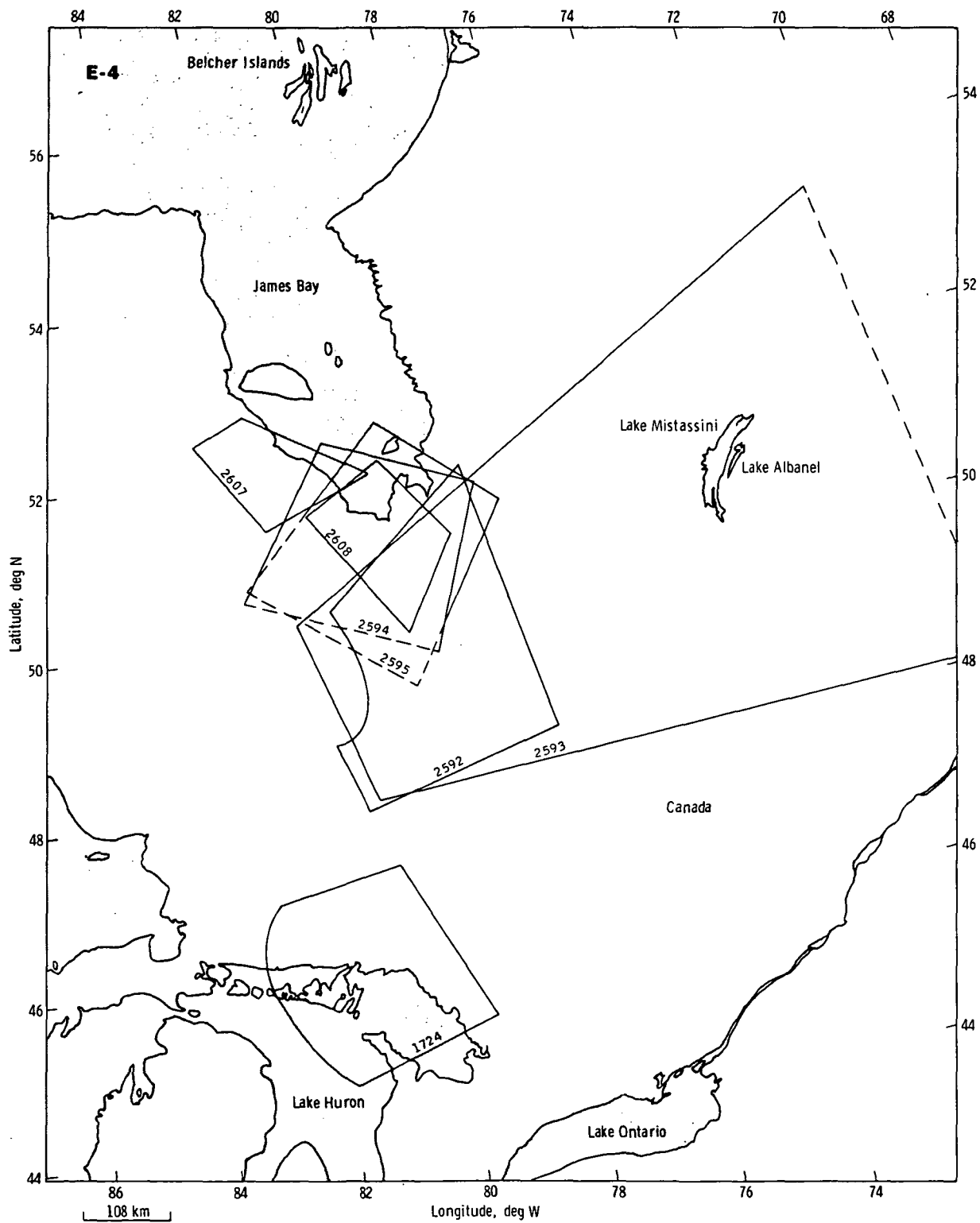


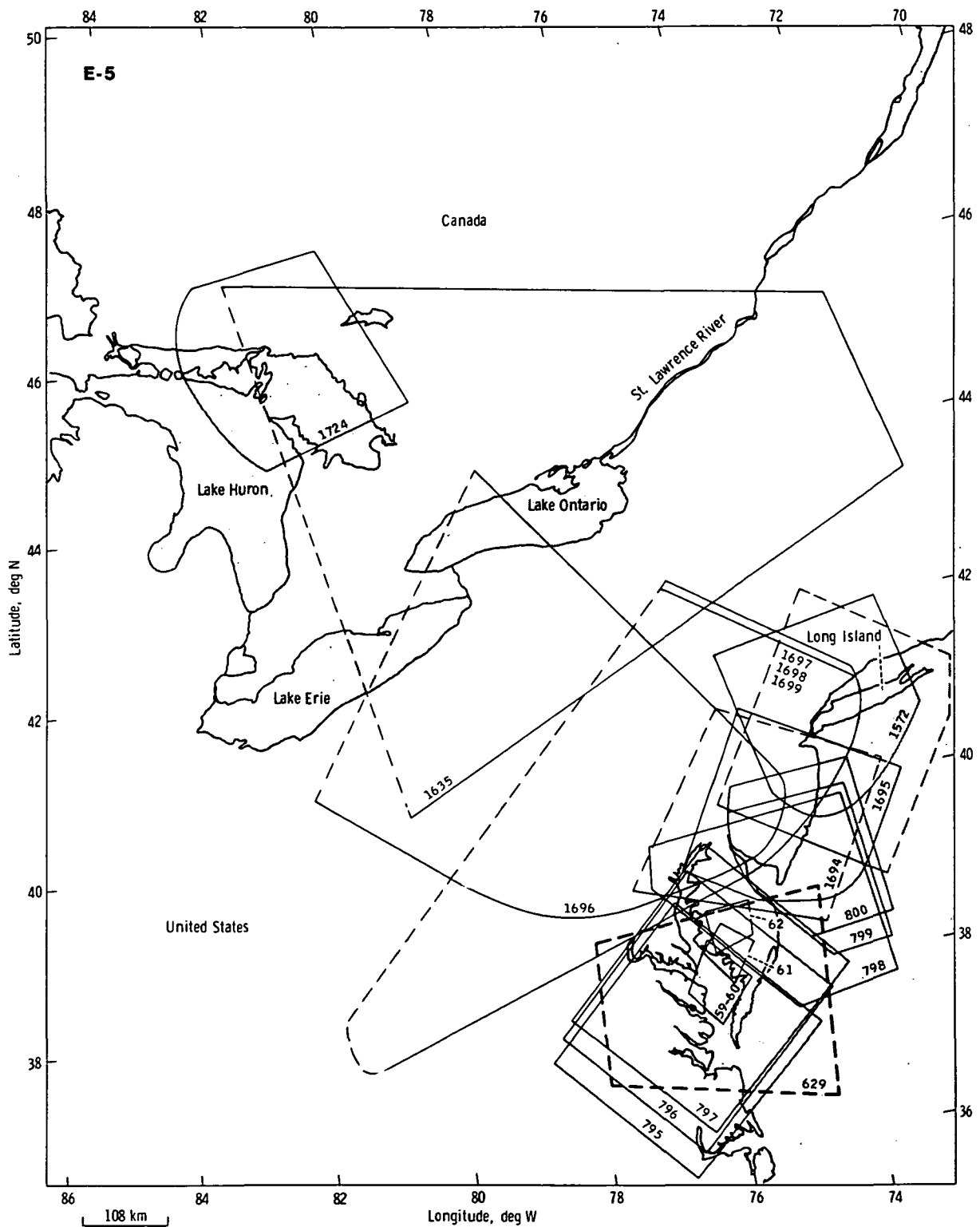


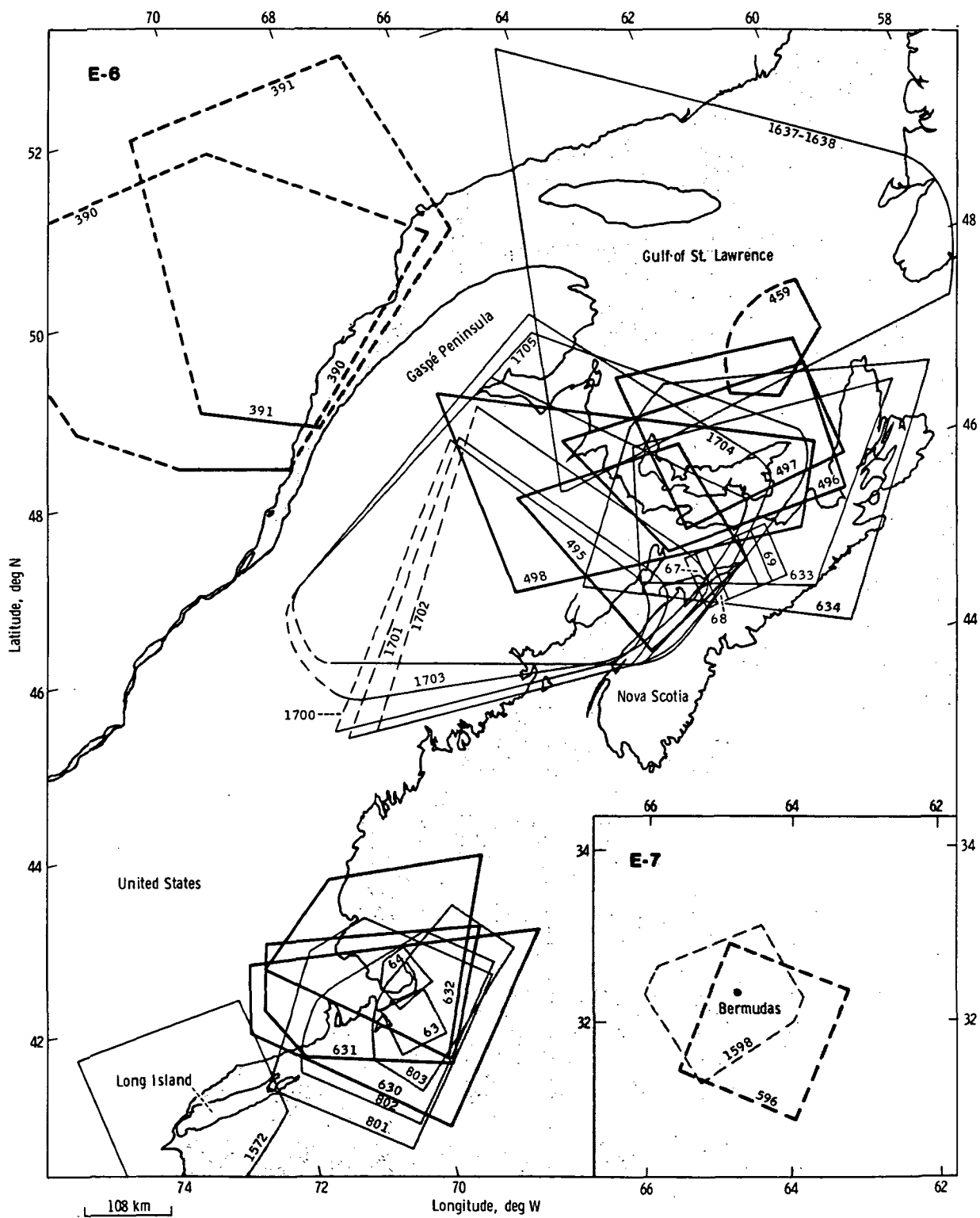


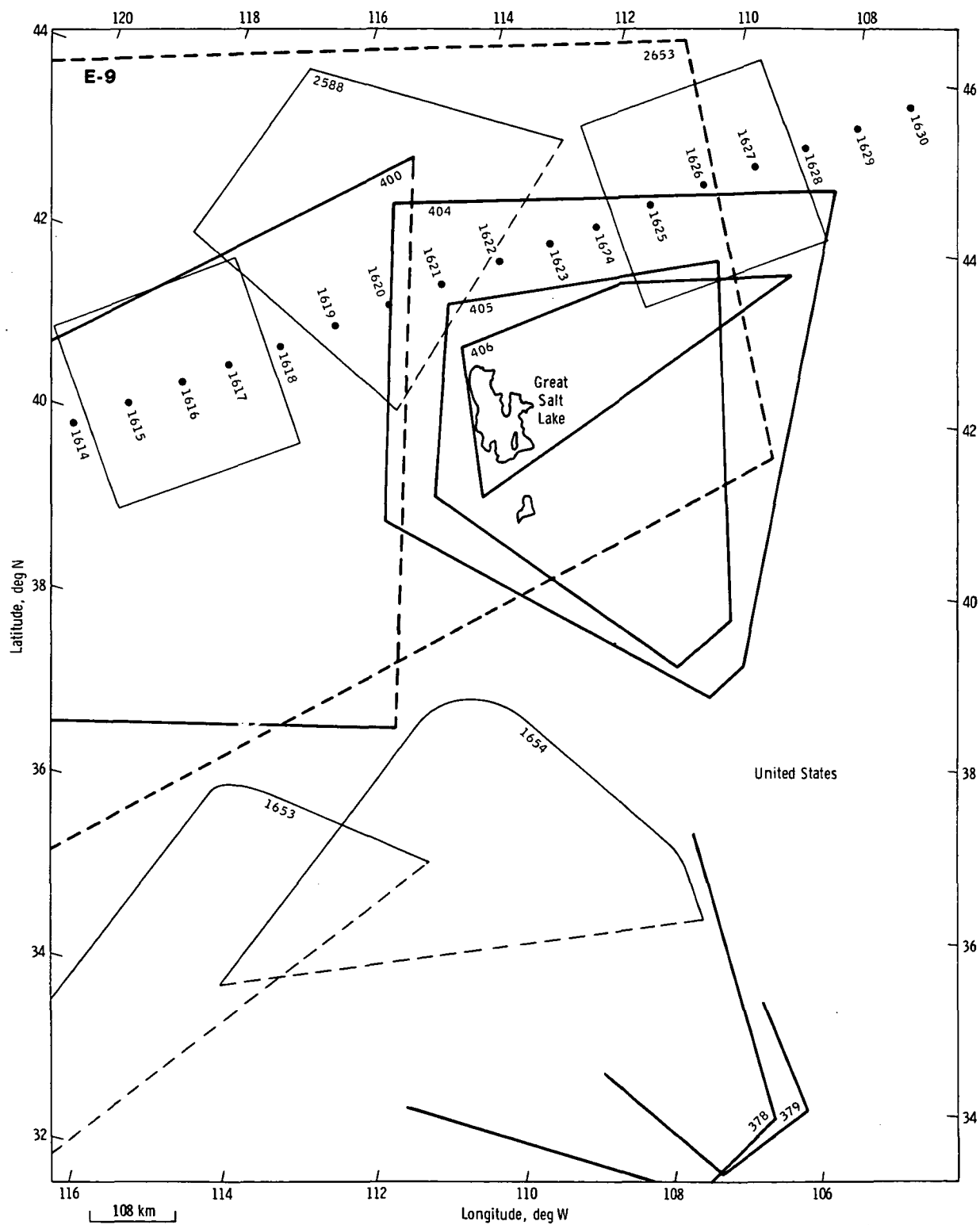


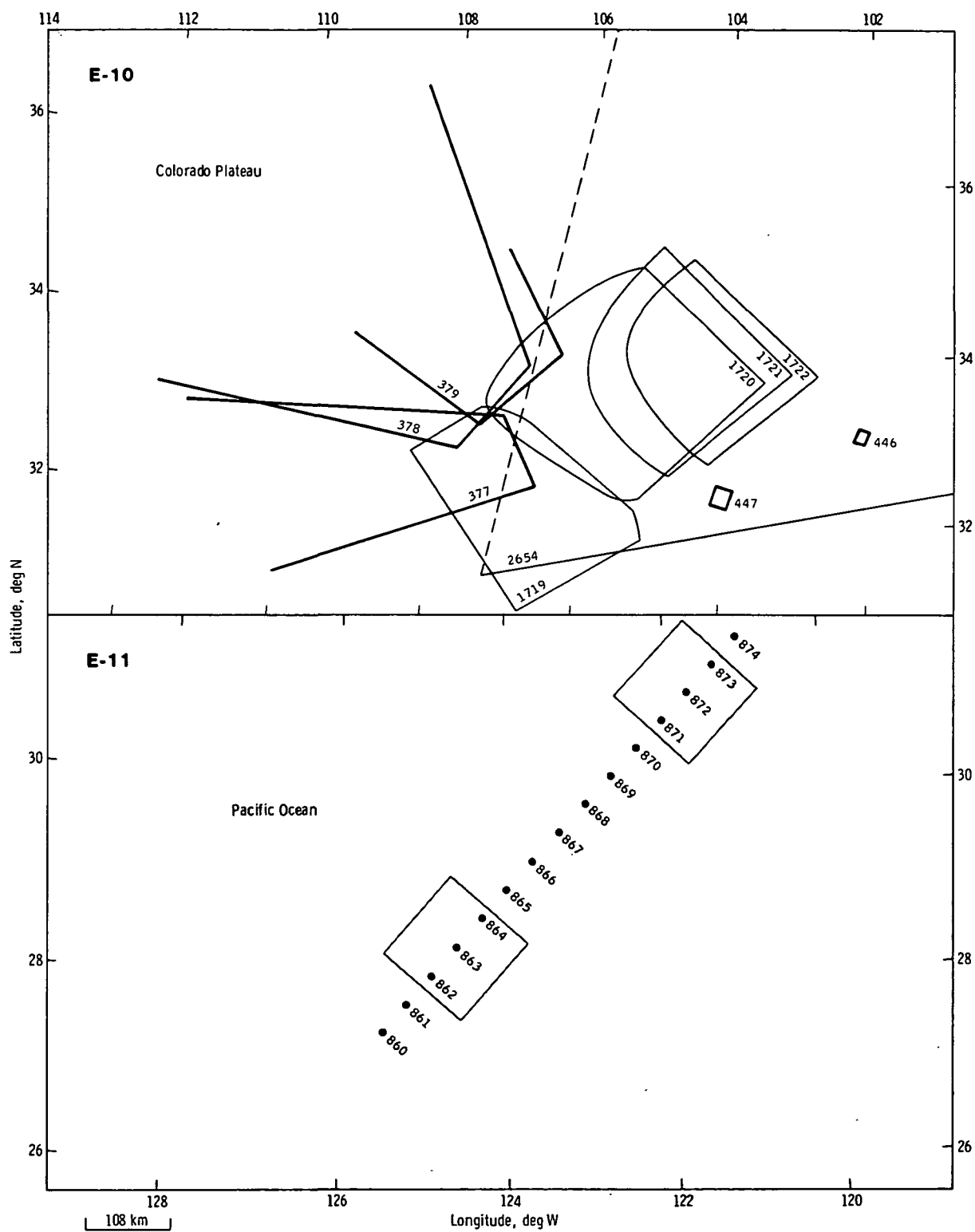


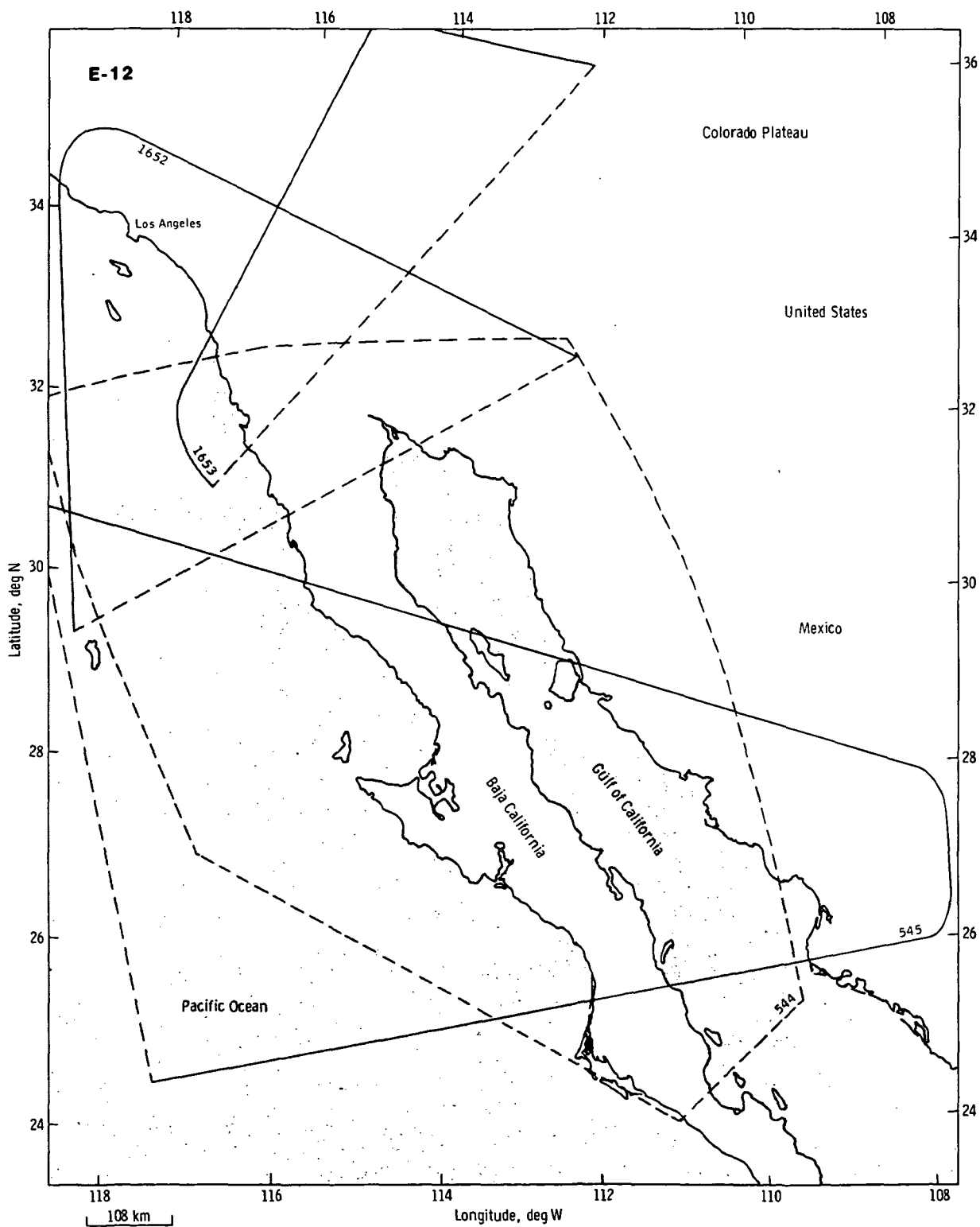


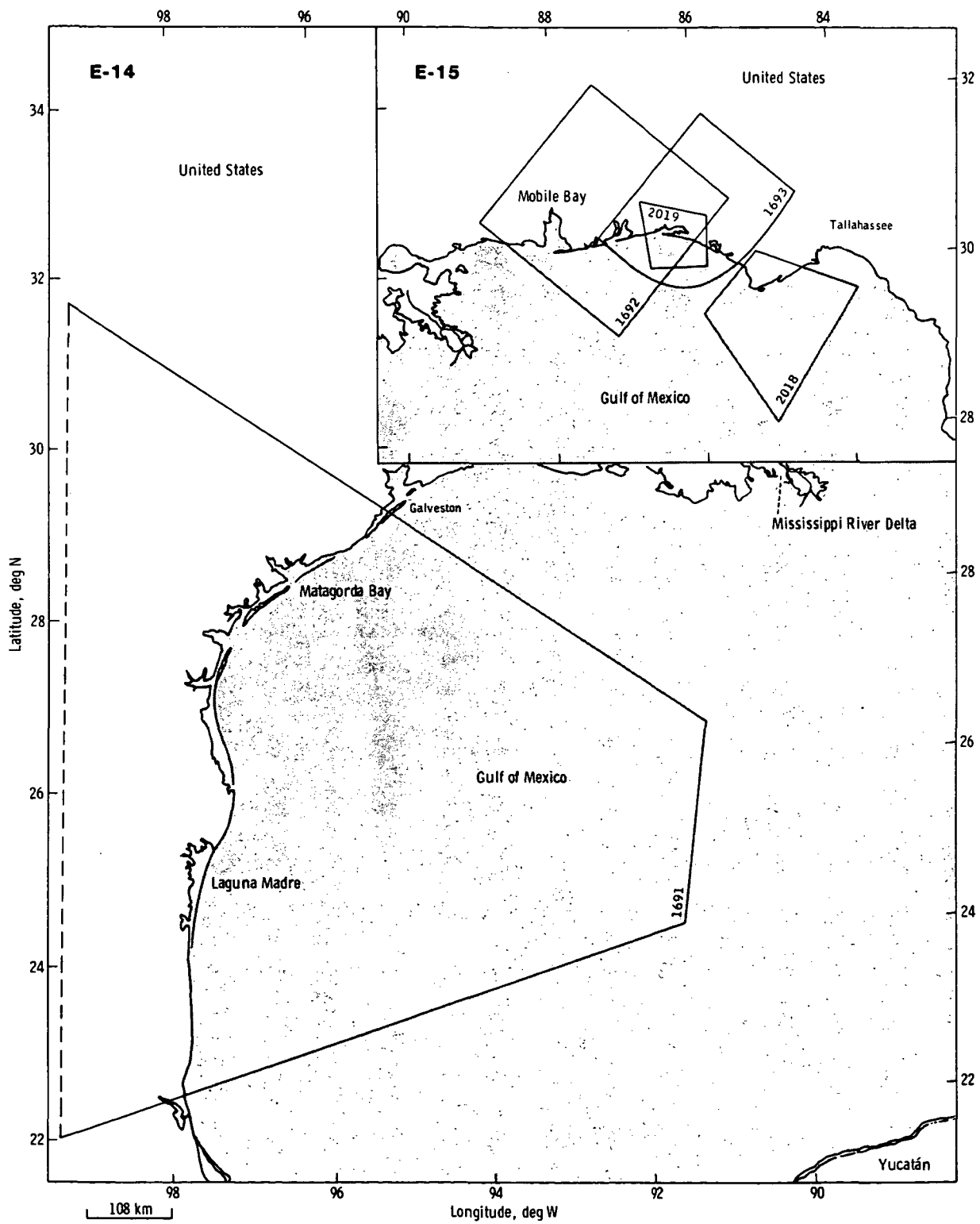


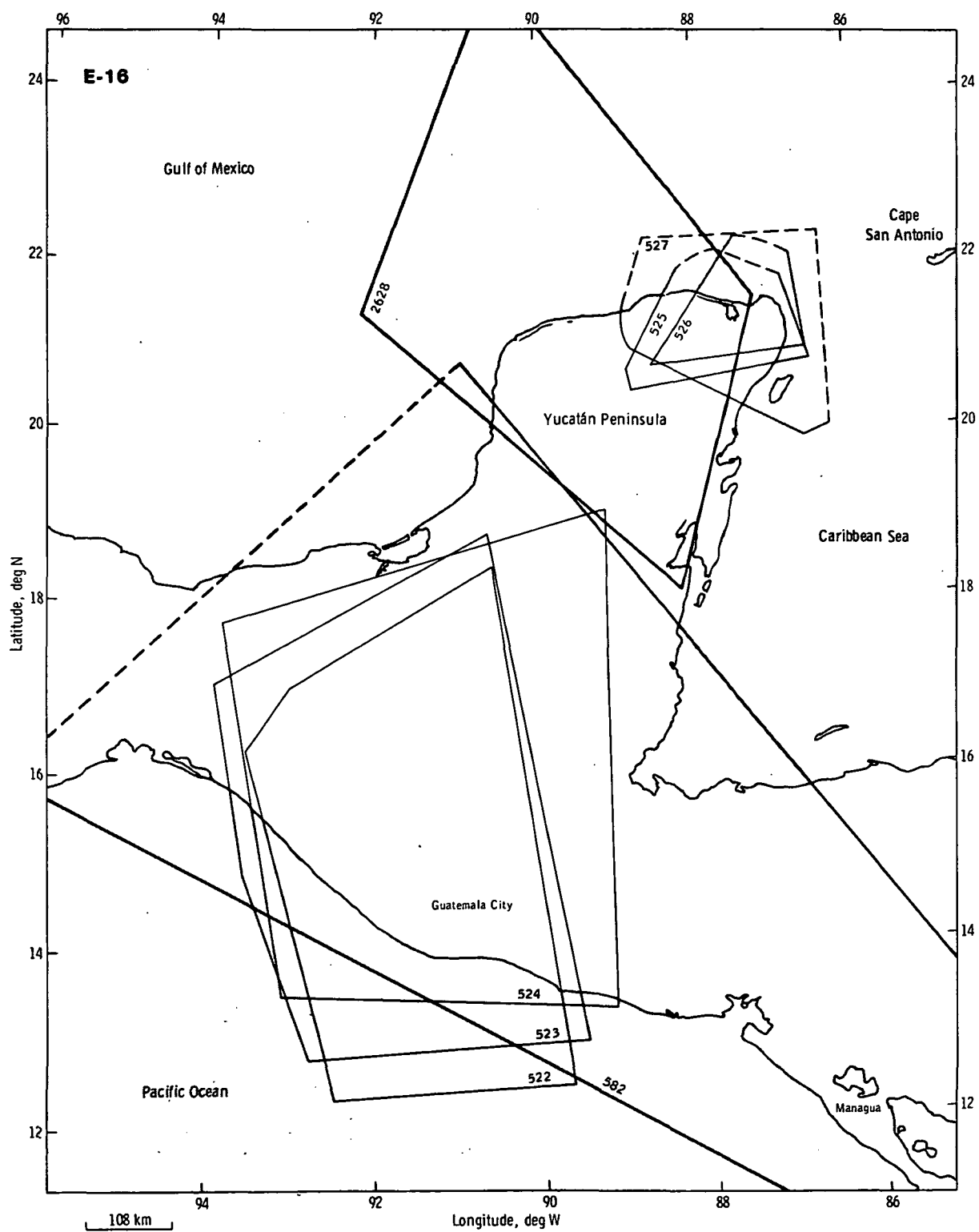


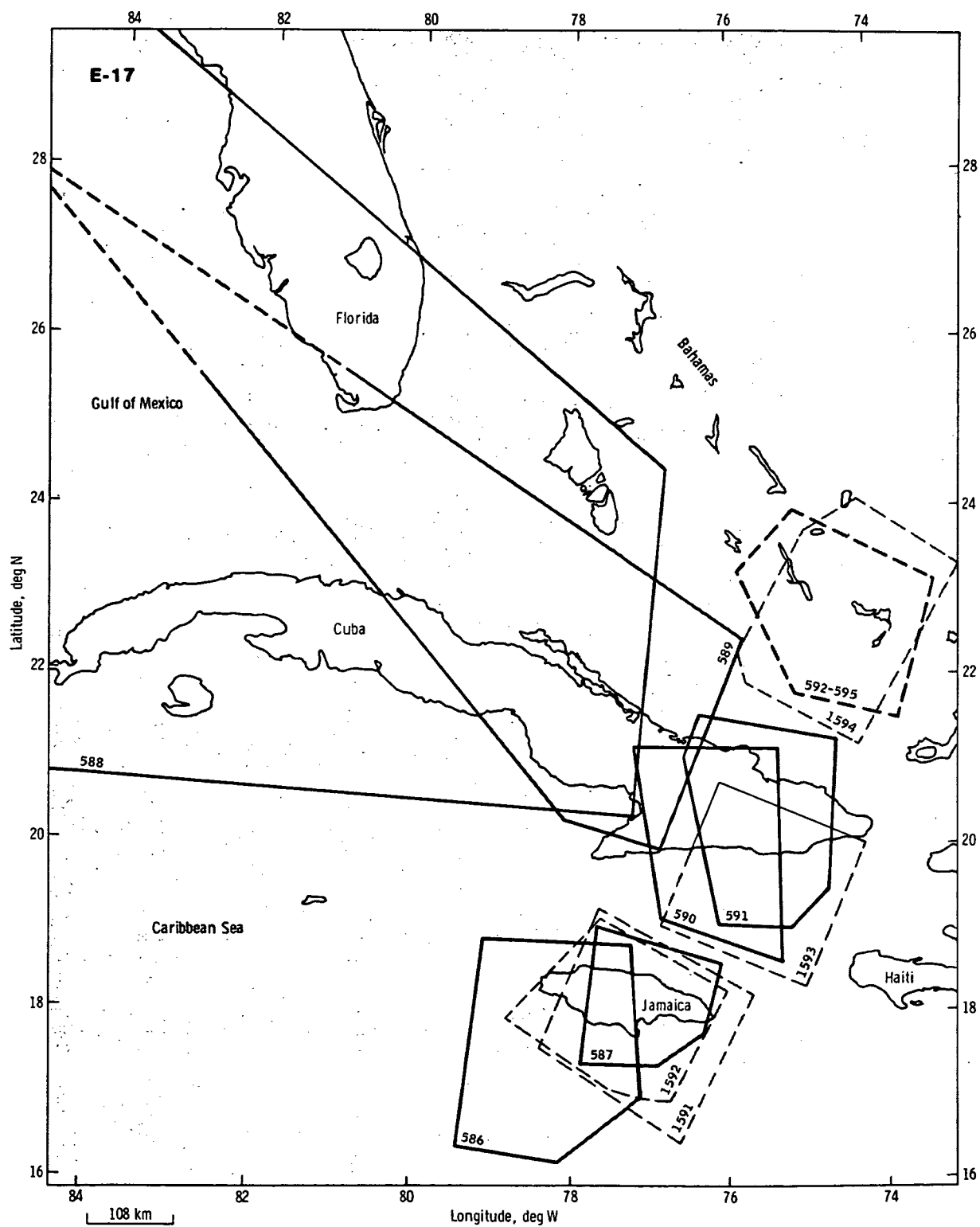


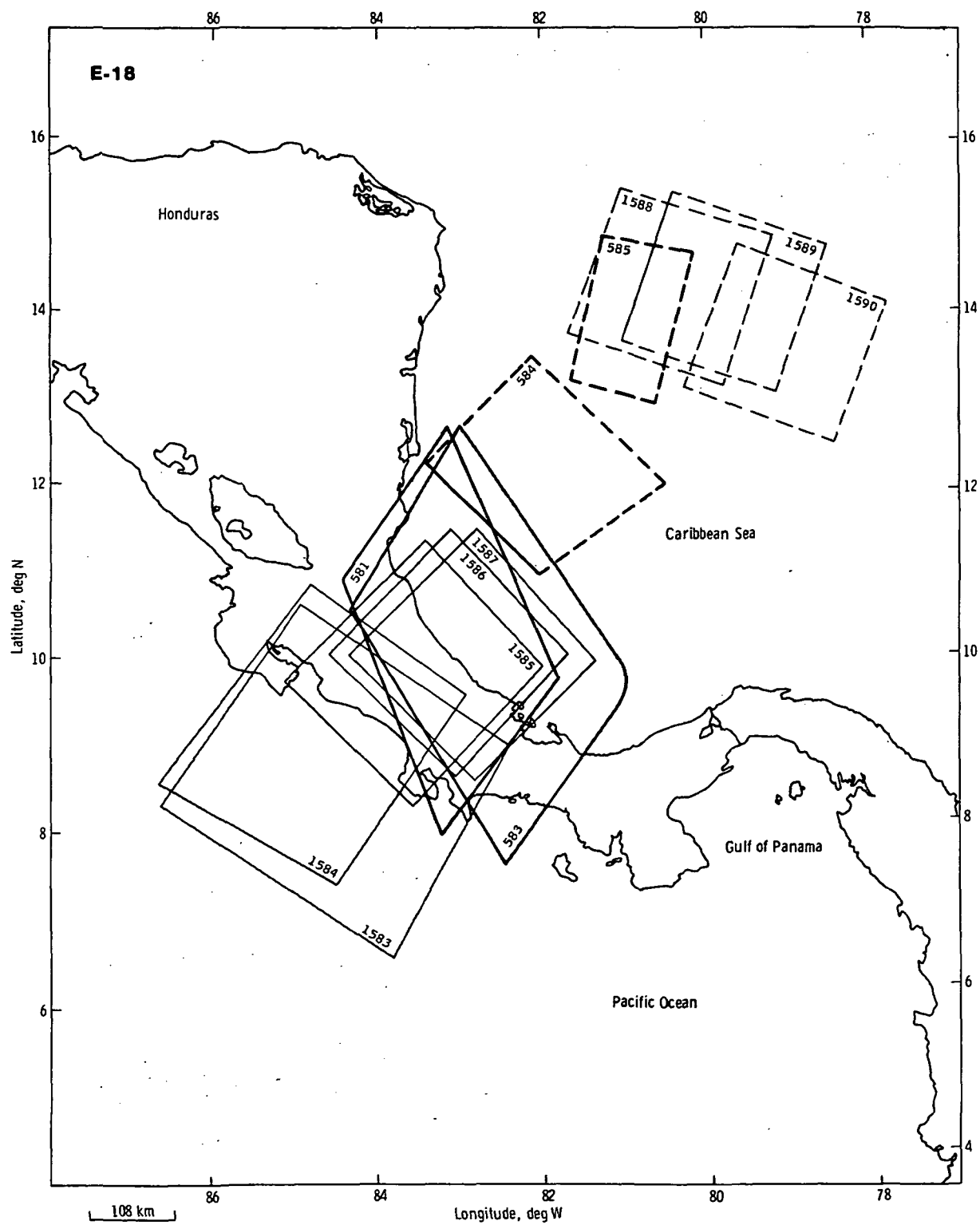


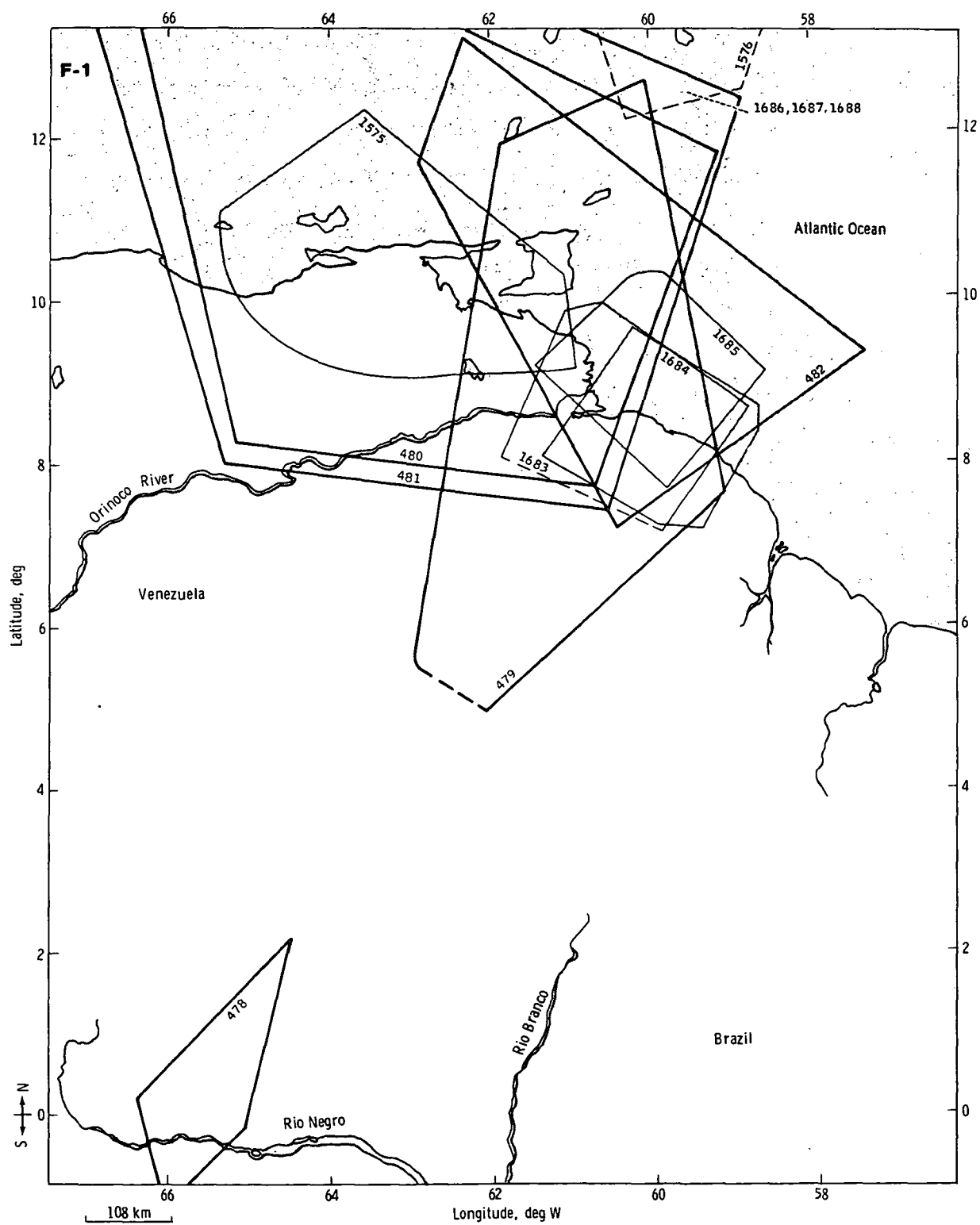


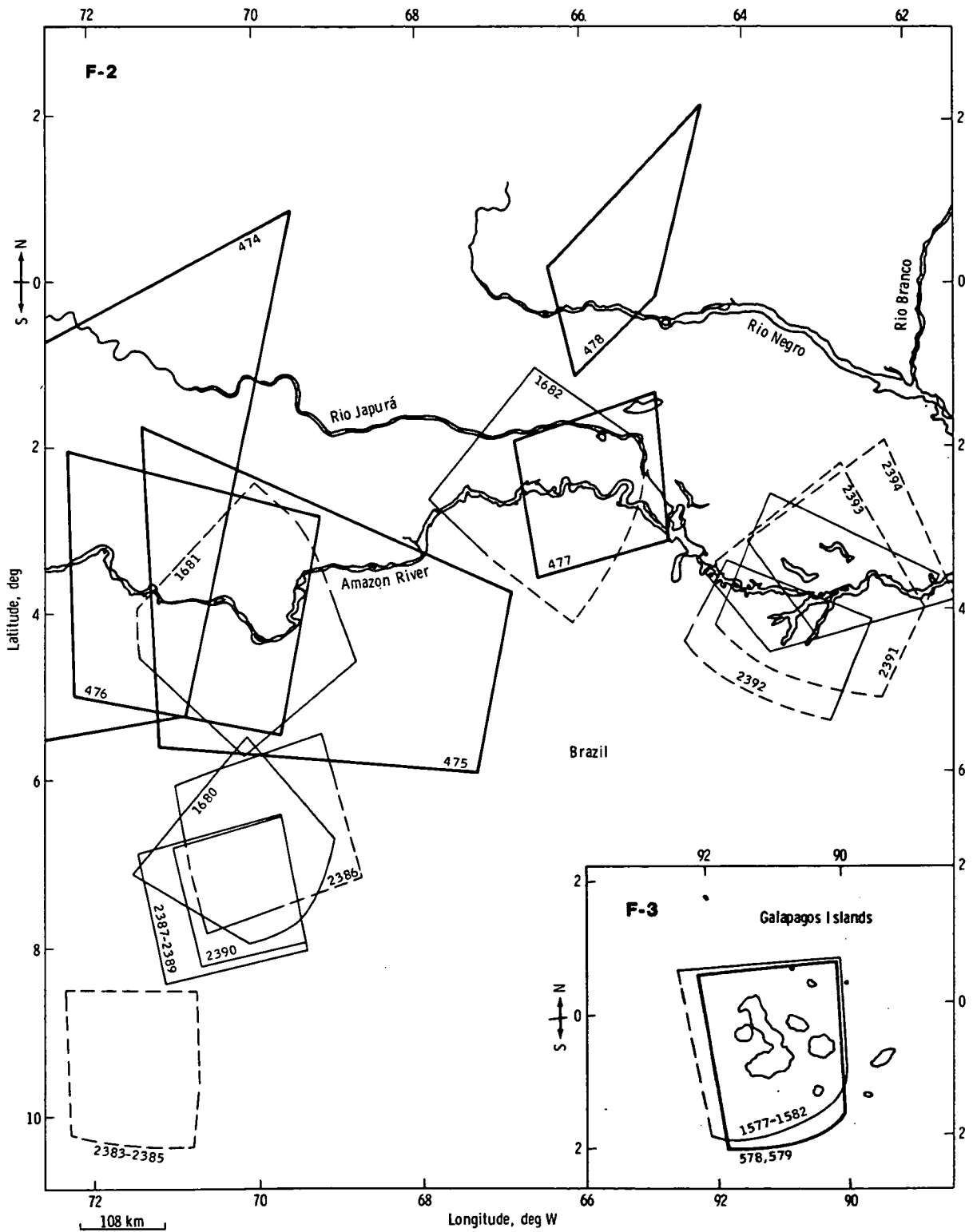


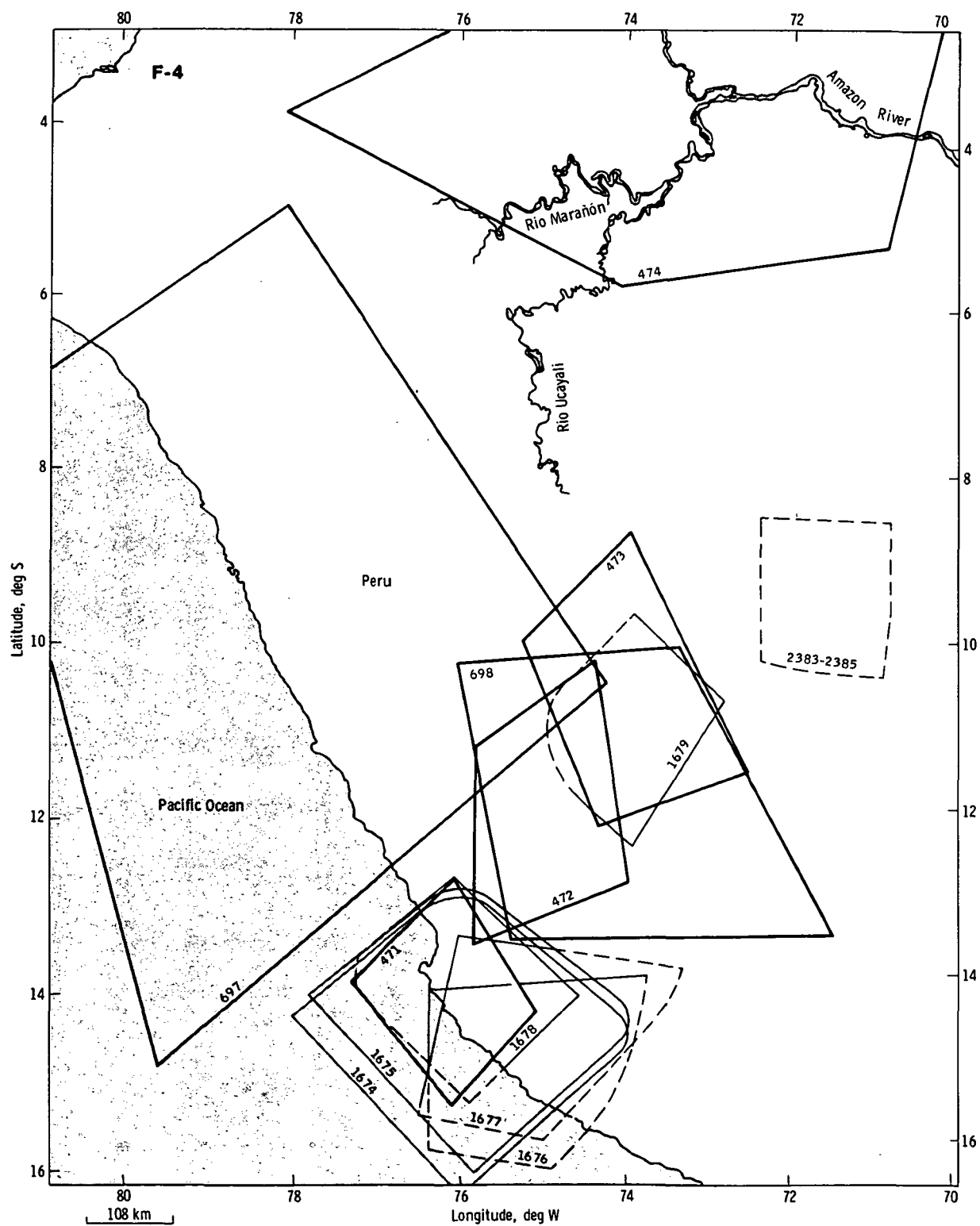


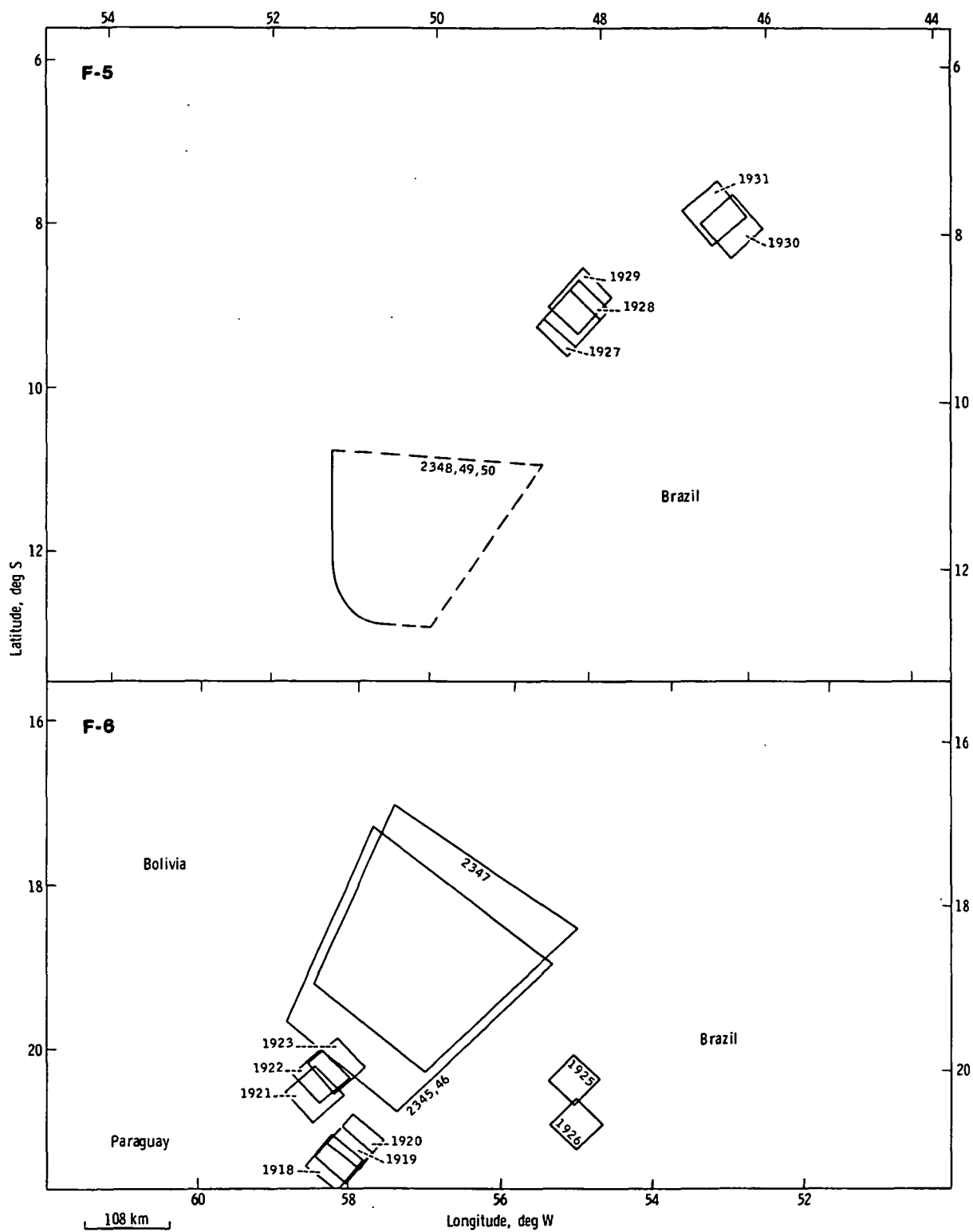


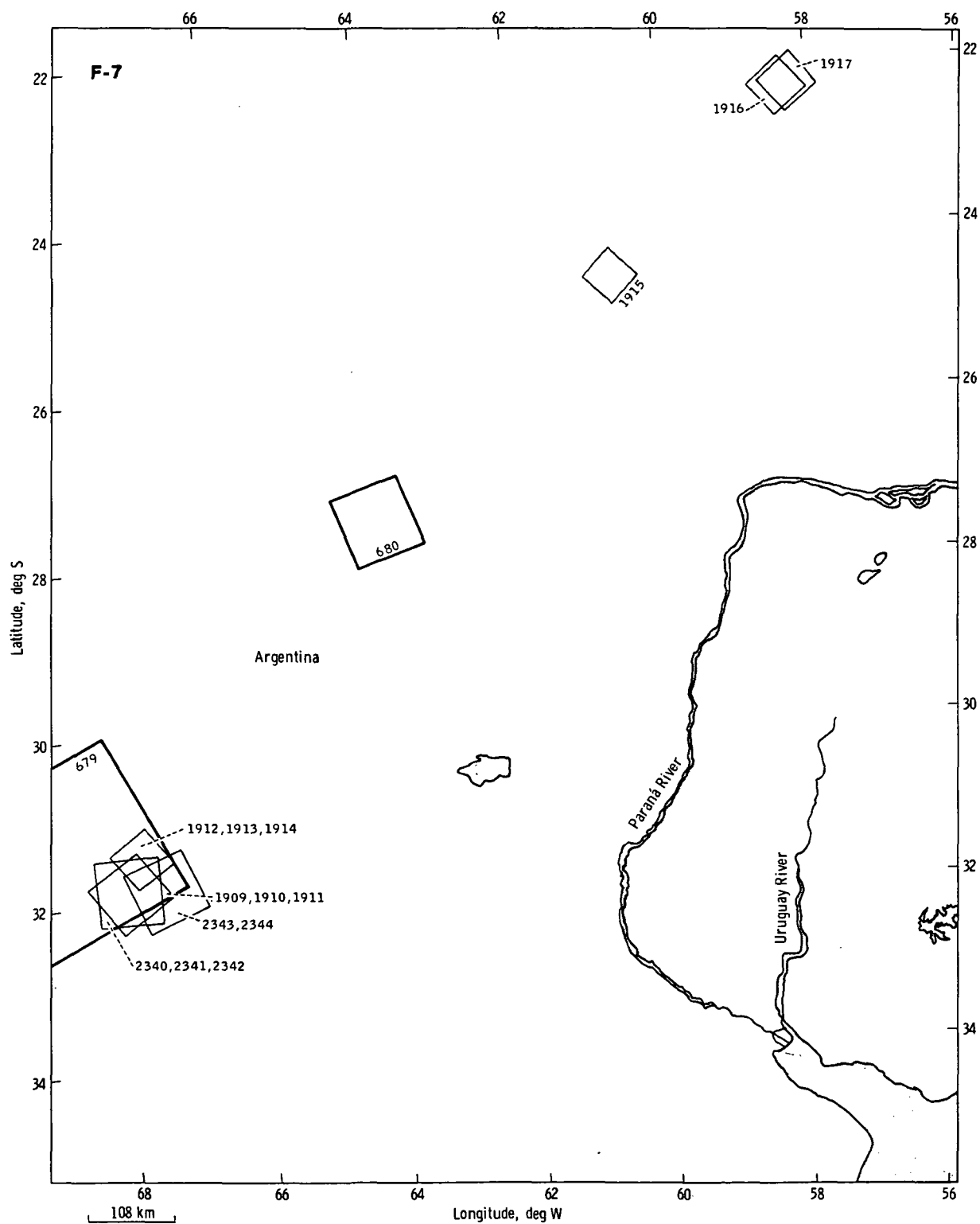












TABULAR INDEX

M. A. Townsend^a and M. H. Slezak^a

This index lists all usable and marginally useful photographs acquired during the Apollo-Soyuz Test Project (ASTP) from July 15 to 24, 1975. It was compiled from data provided by the NASA Lyndon B. Johnson Space Center (JSC) and by El-Baz and Mitchell (ref. 1). Information such as the altitude and the groundtracks of the spacecraft was checked against computer printouts from the JSC.

The following information is given for each photograph:

Photo no.: This is the official NASA number to be used in ordering ASTP photographs. The number includes three parts: the first, "AST," designates the mission; the second is the film magazine number; and the last is the frame number. An asterisk (*) to the left of the photograph number indicates that the photograph is not included in the Photographic Index (following section); a cross (†) indicates that the photograph is not included in the Map Index (previous section). (To order an ASTP photograph, the "AST" prefix, magazine number, and frame number must be specified; photographs may be ordered from the User Service Unit, EROS Data Center, Sioux Falls, South Dakota 57198.)

Description: This gives the general geographic location of the photograph. It includes the country or ocean and an identifying feature such as a city, political division, prominent landform, or river.

Site: This category lists the designations assigned to preselected ASTP sites and mapping passes. Mapping photographs were taken with a

bracket-mounted 70-mm Hasselblad camera, which was equipped with a timing mechanism (intervalometer). The intervalometer triggered the camera shutter every 10 seconds for the 60-mm lens and every 6 seconds for the 100-mm lens so that mapping photographs were taken with 60 percent stereo-overlap. These photographs are designated by the letter M and the number of the pass, e.g. M2 (fig. 1). Photographs obtained by the handheld cameras (70-mm Hasselblad and 35-mm Nikon) include the preselected visual observation sites (fig. 1) as well as targets of opportunity that were photographed by the Apollo crewmembers during the mission. Visual observation sites are designated by a number followed by a letter, e.g. 2A; targets of opportunity have no site designations.

Coordinates of principal point: Latitude and longitude of the center point of the photograph. In cases where the exact location of the photograph is not known, approximate coordinates are given; these are followed by a question mark.

Date in July 1975: Day during which the photograph was taken.

GET: Ground elapsed time; the time elapsed from the Apollo launch at 3:50 p.m. eastern daylight time on July 15, 1975, to the time the photograph was taken.

Rev.: The revolution number of the Apollo spacecraft as it orbited the Earth. Revolutions are counted as the spacecraft orbit crosses the longitude of the launch site at the NASA John F. Kennedy Space Center, Florida (approximately 80° W).

Altitude: Approximate spacecraft altitude in kilometers.

^aNational Air and Space Museum, Smithsonian Institution.

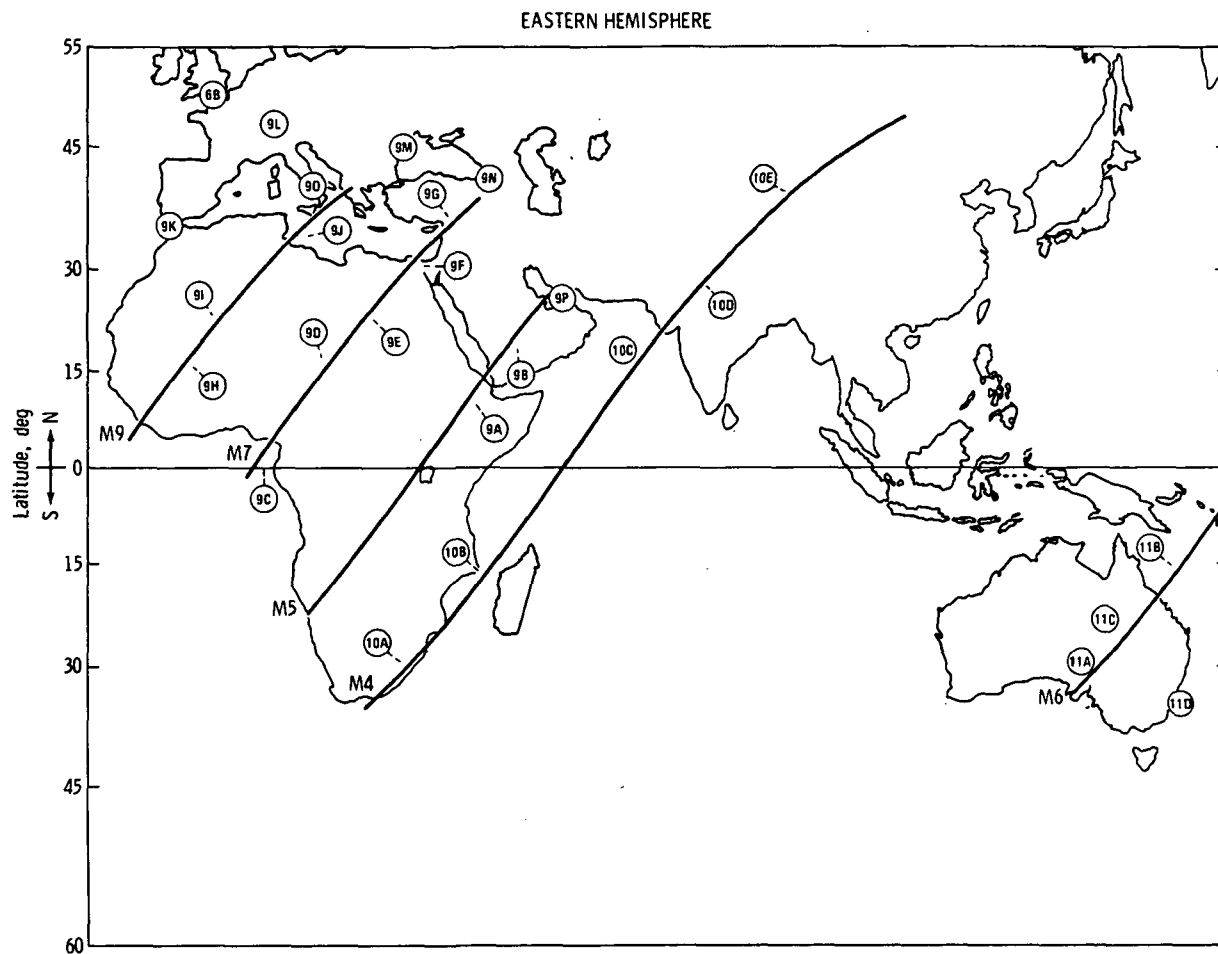


FIGURE 1.—Mapping passes and visual observation sites.

Mapping Passes

No.	Location
M1	Gulf Stream
M2	New Zealand
M3	Southern California
M4	Himalaya Mountains
M5	Arabian Desert
M6	Australia
M7	African drought
M8	Falkland Current
M9	Sahara
M10	Northern California
M11	New England

Visual Observation Sites

No.	Site
1	New Zealand
2	Southwestern United States
	2A Southern California
	2B Baja California
	2C California Current
	2D Great Salt Lake
	2E Guadalajara
3	Weather Belt
	3A Cloud features
	3B Tropical storms
	3C Hawaii
	3D Kuroshio Current

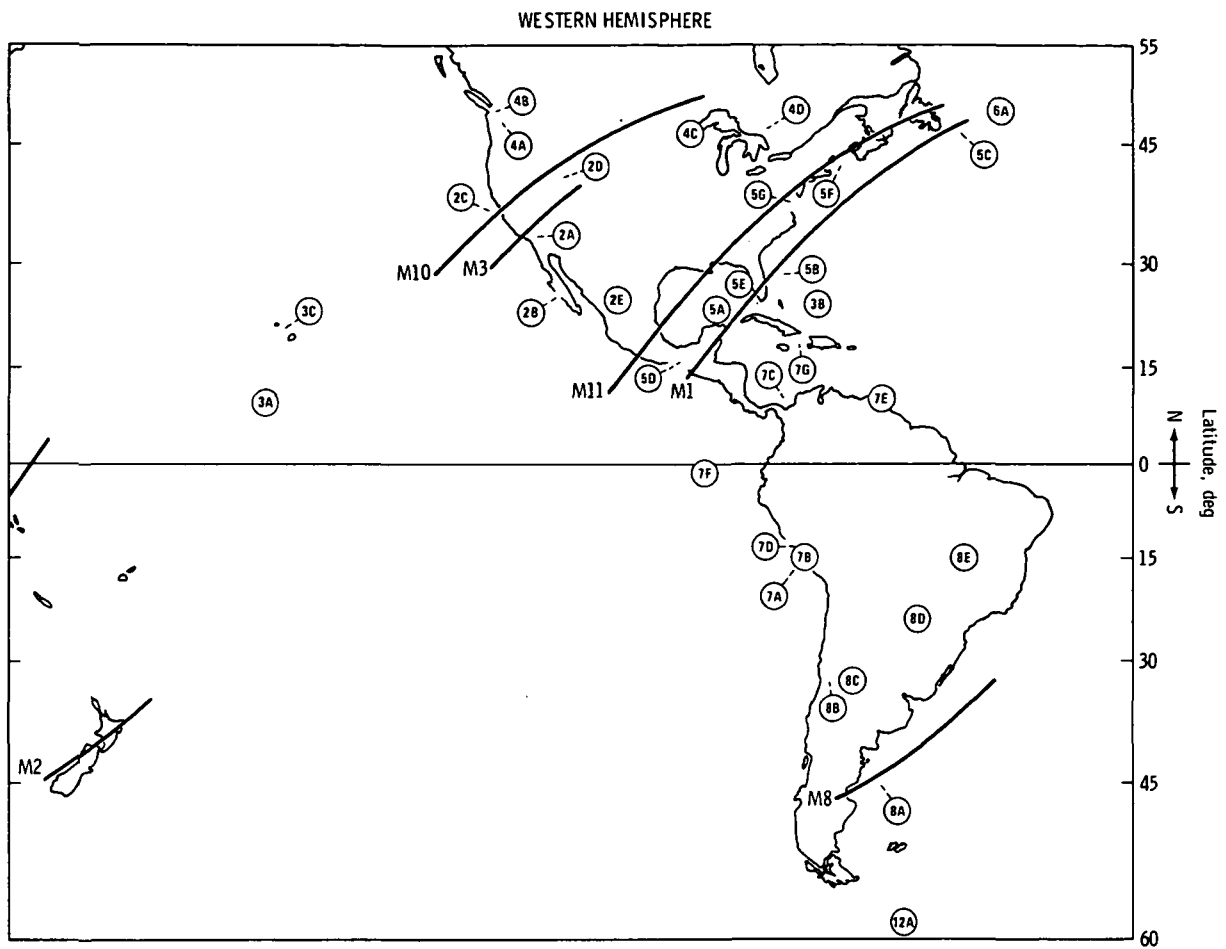


FIGURE 1.—Concluded.

Visual Observation Sites

No.	Site
4	Northern North America
	4A Snow peaks
	4B Puget Sound
	4C Superior iron
5	4D Sudbury nickel
	Eastern North America
	5A Gulf of Mexico
	5B Gulf Stream
	5C Labrador Current
	5D Central American structures
	5E Florida red tide
	5F New England red tide
	5G Chesapeake Bay

Visual Observation Sites

No.	Site
6	Northern Atlantic
	6A Oil slicks
7	6B London
	Northern South America
7	7A Humboldt Current
	7B Nazca Plain
	7C Internal waves
	7D Peruvian desert
	7E Orinoco River Delta
	7F Galapagos Islands
	7G Caribbean Sea

Visual Observation Sites

No.	Site
8	Southern South America
	8A Falkland Current
	8B Chilean Andes
	8C Dune field
	8D Parana River
	8E Circular structures
9	Africa and Europe
	9A Afar Triangle
	9B Arabian Peninsula
	9C Guinea Current
	9D Desert colors
	9E Oweinat Mountain
	9F Nile Delta
	9G Levantine Rift
	9H Niger River Delta
	9I Algerian Desert
	9J Tripoli
	9K Strait of Gibraltar
	9L Alps

Visual Observation Sites

No.	Site
9	Africa and Europe
	9M Danube Delta
	9N Anatolian Fault
	9O Volcanics
	9P Bioluminescence
10	Africa and India
	10A Great Dike
	10B Somali Current
	10C Arabian Sea
	10D Himalaya Mountains
	10E Takla Makan Desert
11	Australia
	11A Playas
	11B Coral Sea
	11C Simpson Desert
	11D ANZUS Eddy
12	Antarctican ice
	12A Icebergs

Tilt: Photographs obtained by the bracket-mounted Hasselblad mapping camera are *vertical (V)*. Handheld-camera photographs appearing to approximate a vertical photograph are listed as *near vertical (NV)*. Photographs that were taken obliquely, but in which the horizon is not visible in the field of view, are *low oblique (LO)*. Oblique photographs in which the horizon is included within the field of view are *high oblique (HO)*.

Sun angle: This column lists the Sun elevation angle at the time and place the photograph was taken. For mapping camera photographs, Sun-angle data were available from the JSC (ref. 2). Sun angles for all other photographs were measured by marking on a globe the daylight period from sunrise to sunset for each revolution. The marking was made by a tape that was divided into 180 equal parts, representing Sun elevation angles along the spacecraft groundtracks.

Camera and lens: The cameras are designated: *Black (B)* for the 70-mm Hasselblad data camera used for mapping photography; *Silver (S)* for the handheld 70-mm Hasselblad reflex camera; and *Nikon (N)* for the handheld 35-mm Nikon reflex

camera. For the camera lenses, the focal length in millimeters is given. The lenses used with the Silver camera were 50-mm and 250-mm. The Black camera was used with 60-mm and 100-mm lenses. The Nikon camera was used with 35-mm and 300-mm lenses.

Remarks: This column is reserved for comments on the percent of cloud cover, improper exposure of the photograph, haziness, blurriness, or partial frame indications.

REFERENCES

1. El-Baz, Farouk; and Mitchell, D. A.: Earth Observations and Photography, Experiment MA-136. Sec. 10 of Apollo-Soyuz Test Project Preliminary Science Report. NASA TM X-58173, 1976.
2. ASTP-Mission Computer Printout. Mission Trajectory. Available From National Space Science Data Center, Goddard Space Flight Center; ID no. 75-066A-00I for 16-mm Microfilm, ID no. 75-066A-00H for Digital Tape.

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
†1-001	Pacific (eddies)	3A		15		1		NV		S/50	30% clouds
†1-002	Pacific (eddies)	3A		15		1		LO		S/50	30% clouds
†1-013	New Zealand (S-IV-B)	1		15		2		HO		S/50	90% clouds
1-014	New Zealand, N. Is.	1	41:40 S; 174:20 E	15	10:19	2	168	HO	13	S/50	80% clouds
1-015	New Zealand, N. Is.	1	39:12 S; 175:54 E	15	10:20	2	167	HO	16	S/50	60% clouds
1-016	New Zealand, N. Is.	1	38:20 S; 177:00 E	15	10:20	2	165	HO	17	S/50	50% clouds
†1-017	Pacific (clouds)	3A		15		2		HO		S/50	80% clouds
†1-018	Pacific (clouds)	3A		15		2		HO		S/50	70% clouds
1-019	Canada, Manitoba		49:40 N; 97:00 W	15		4		HO		S/50	30% clouds
1-020	Horizon view			15		17		HO		S/250	70% clouds
1-021	Horizon view			15		17		HO		S/250	70% clouds
1-022	Horizon view			15		17		HO		S/250	70% clouds
1-023	New Zealand, SW			15		17		NV		S/250	90% clouds
1-024	New Zealand, SW			15		17		NV		S/250	90% clouds
1-025	New Zealand, SW			15		17		NV		S/250	80% clouds
1-026	New Zealand, SW			15		17		NV		S/250	90% clouds
1-027	New Zealand, SW			15		17		NV		S/250	90% clouds
1-028	New Zealand, S. Is.	1	41:25 S; 172:10 E	16	33:39	17	184	NV	11	S/250	50% clouds
1-029	New Zealand, S. Is.	1	41:20 S; 172:20 E	16	33:39	17	184	NV	11	S/250	40% clouds
1-030	New Zealand, S. Is.	1	41:20 S; 172:30 E	16	33:39	17	184	NV	11	S/250	60% clouds
1-031	New Zealand, S. Is.	1	41:20 S; 173:00 E	16	33:40	17	182	NV	12	S/250	50% clouds
1-032	New Zealand, S. Is.	1	41:20 S; 173:10 E	16	33:40	17	182	NV	13	S/250	40% clouds
1-033	New Zealand, S. Is.	1	41:10 S; 173:20 E	16	33:40	17	180	NV	14	S/250	50% clouds
1-034	New Zealand, S. Is.	1	41:10 S; 173:30 E	16	33:41	17	180	NV	16	S/250	60% clouds
1-035	New Zealand, S. Is.	1	41:10 S; 174:00 E	16	33:41	17	180	NV	17	S/250	90% clouds
1-036	Pacific, South	1		16		17	180	NV		S/250	30% clouds
1-037	Pacific, South	1		16		17	180	NV		S/250	
1-038	Pacific, South	1		16		17	180	NV		S/250	5% clouds
1-039	Cook Is., Aitutaki		19:00 S; 159:50 W	16	33:48	17	170	NV	49	S/250	15% clouds
†1-040	Pacific (unique clouds)	3A		16		17	170	NV		S/250	
†1-041	Pacific (unique clouds)	3A		16		17	170	NV		S/250	
†1-042	Pacific (unique clouds)	3A		16		17	170	NV		S/250	
1-043	Australia, Dawson River		24:10 S; 149:25 E	17	36:44	19	171	NV	39	S/250	
1-044	Australia, Dawson River		23:10 S; 149:20 E	17	36:44	19	171	NV	41	S/250	
1-045	Australia, Great Barrier Reef	11B	21:45 S; 150:45 E	17	36:45	19	170	LO	44	S/250	
1-046	Australia, Great Barrier Reef	11B	21:00 S; 150:50 E	17	36:45	19	170	NV	44	S/250	
1-047	Australia, Great Barrier Reef	11B	19:55 S; 151:20 E	17	36:45	19	170	NV	44	S/250	
1-048	Egypt, Nile Delta	9F	30:10 N; 31:05 E	17	47:19	26	181	NV	64	S/250	
1-049	Egypt, Nile Delta	9F	30:05 N; 31:10 E	17	47:19	26	181	NV	64	S/250	
1-050	Egypt, Nile Delta	9F	30:05 N; 31:10 E	17	47:19	26	181	NV	64	S/250	
1-051	Egypt, Suez Canal	9F	30:00 N; 31:10 E	17	47:20	26	184	LO	64	S/250	
1-052	Syria/Cyprus	9F	35:15 N; 35:30 E	17	47:21	26	187	LO	57	S/250	
1-059	U.S., Chesapeake Bay	5G	38:00 N; 76:05 W	24	96:09	136	225	NV	83	S/250	Hazy
1-060	U.S., Chesapeake Bay	5G	38:00 N; 76:00 W	24	96:09	136	225	NV	83	S/250	Hazy
1-061	U.S., Chesapeake Bay	5G	38:15 N; 75:00 W	24	96:09	136	225	NV	82	S/250	30% clouds
1-062	U.S., Chesapeake Bay	5G	38:35 N; 75:25 W	24	96:09	136	225	NV	81	S/250	60% clouds
1-063	U.S., Nantucket Is.	5F	41:10 N; 70:05 W	24	96:15	136	226	NV	76	S/250	

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1-064	U.S., Cape Cod	5F	41:30 N; 70:05 W	24	96:15	136	226	NV	76	S/250	
†1-065	U.S., off Cape Cod	5F	42:35 N; 69:50 W	24	96:15	136	226	LO	75	S/250	
†1-066	U.S., off Cape Cod	5F	43:10 N; 68:15 E	24	96:16	136	226	LO	74	S/250	
1-067	Canada, Nova Scotia		45:10 N; 63:20 W	24	96:16	136	226	NV	71	S/250	30% clouds
1-068	Canada, Nova Scotia		45:15 N; 63:10 W	24	96:16	136	226	NV	71	S/250	20% clouds
1-069	Canada, Nova Scotia		45:15 N; 63:00 W	24	96:16	136	226	NV	70	S/250	20% clouds
†1-070	Atlantic, North			24		136	226	NV		S/250	80% clouds
†2-083	Soyuz spacecraft			19		59	225	HO		S/50	30% clouds
†2-084	Soyuz spacecraft			19		59	225	HO		S/50	30% clouds
†2-085	Soyuz spacecraft			19		59	225	HO		S/50	30% clouds
†2-086	Soyuz spacecraft			19		59	225	HO		S/50	30% clouds
†2-087	Soyuz spacecraft			19		59	225	HO		S/50	20% clouds
†2-088	Soyuz spacecraft			19		59	225	HO		S/50	20% clouds
†2-089	Soyuz spacecraft			19		59	225	HO		S/50	20% clouds
†2-090	Soyuz spacecraft			19		60	225	HO		S/50	20% clouds
†2-091	Soyuz spacecraft			19		60	225	HO		S/50	20% clouds
†2-092	Soyuz spacecraft			19		60	225	HO		S/50	20% clouds
†2-093	Soyuz spacecraft			19		60	225	HO		S/50	20% clouds
2-094	Soyuz spacecraft			19		60	225	HO		S/50	20% clouds
*2-095	U.S.S.R., Lake Sevan/Soyuz spacecraft			19		60	225	HO		S/50	75% clouds
*2-096	U.S.S.R., Lake Sevan/Soyuz spacecraft			19		60	225	HO		S/50	75% clouds
*2-097	U.S.S.R., Lake Sevan/Soyuz spacecraft			19		60	225	HO		S/50	75% clouds
2-102	Australia, Great Barrier Reef	11B	20:10 S; 149:30 E	20	107:46	64	224	NV	31	S/250	
2-103	Australia, Great Barrier Reef	11B	20:05 S; 150:00 E	20	107:46	64	224	NV	31	S/250	
2-104	Australia, Great Barrier Reef	11B	20:00 S; 150:05 E	20	107:46	64	224	NV	31	S/250	
2-105	Australia, Great Barrier Reef	11B	20:05 S; 150:15 E	20	107:46	64	224	NV	31	S/250	
†2-106	Coral Sea	11B		19		64	224	LO		S/250	
†2-107	Coral Sea	11B		19		64	224	LO		S/250	
†2-108	Coral Sea	11B		19		64	224	LO		S/250	
†2-109	Coral Sea	11B		19		64	224	LO		S/250	
†2-110	Coral Sea	11B		19		64	224	LO		S/250	
†2-111	Coral Sea	11B		19		64	224	LO		S/250	
†2-112	Coral Sea	11B		19		64	224	LO		S/250	
†2-113	Pacific, South	3B		19		64	224	LO		S/250	
†2-114	Pacific, South	3B		19		64	224	LO		S/250	
†2-115	Pacific, South	3B		19		64	224	LO		S/250	
†2-116	Pacific, South	3B		19		64	224	LO		S/250	
†2-117	Pacific, South	3B		19		64	224	LO		S/250	
†2-118	Pacific, South	3B		19		64	224	LO		S/250	
†2-119	Pacific, South	3B		19		64	224	LO		S/250	
2-120	Chad, Lake Chad	9D	14:00 N; 14:25 E	20	118:19	71	222	NV	78	S/250	
2-121	Chad, Lake Chad	9D	14:00 N; 14:25 E	20	118:19	71	222	NV	78	S/250	
2-122	Chad, Lake Chad	9D	14:00 N; 14:25 E	20	118:15	71	222	NV	78	S/250	
2-123	Libya, SE	9D	21:00 N; 22:30 E	20	118:22	71	223	NV	85	S/250	15% clouds
2-124	Libya, SE	9D	21:30 N; 22:30 E	20	118:22	71	223	NV	85	S/250	5% clouds
2-125	Libya, SE	9D	22:00 N; 22:50 E	20	118:22	71	223	NV	86	S/250	20% clouds
2-126	Egypt, Oweinat Mt.	9E	21:25 N; 25:00 E	20	118:22	71	223	NV	89	S/250	

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2-127	Egypt, Arkenu Mt.	9E	22:25 N; 24:55 E	20	118:22	71	223	NV	89	S/250	
2-128	Egypt, Oweinat Mt.	9E	21:55 N; 24:35 E	20	118:22	71	223	NV	89	S/250	
2-129	Egypt, Oweinat Mt.	9E	22:00 N; 24:55 E	20	118:22	71	223	NV	89	S/250	
2-130	Egypt, Oweinat Mt.	9E	22:00 N; 25:00 E	20	118:22	71	223	NV	89	S/250	
2-131	Egypt, Oweinat Mt.	9E	21:40 N; 25:00 E	20	118:22	71	223	NV	89	S/250	
2-132	Egypt, Kebir Plateau	9E	24:00 N; 26:00 E	20	118:23	71	224	NV	88	S/250	
2-133	Egypt, Kebir Plateau	9E	24:00 N; 26:00 E	20	118:23	71	224	NV	88	S/250	
2-134	Egypt, Kebir Plateau	9E	24:00 N; 26:00 E	20	118:23	71	224	NV	88	S/250	
2-135	Egypt, Nile River	9F	29:30 N; 31:00 E	20	118:25	71	225	NV	79	S/250	
2-136	Egypt, Nile River	9F	30:00 N; 31:05 E	20	118:25	71	225	NV	79	S/250	
2-137	Egypt, Nile Delta	9F	30:05 N; 31:15 E	20	118:25	71	225	NV	79	S/250	
2-138	Egypt, Suez Gulf	9G	29:20 N; 32:20 E	20	118:25	71	225	NV	78	S/250	
2-139	Egypt, Suez Canal	9G	29:30 N; 32:20 E	20	118:26	71	226	NV	78	S/250	
2-140	Egypt, Suez Gulf	9G	28:05 N; 33:10 E	20	118:26	71	226	LO	78	S/250	
2-141	Jordan River	9G	33:25 N; 35:40 E	20	118:26	71	226	LO	74	S/250	
2-142	Jordan River	9G	33:30 N; 35:45 E	20	118:26	71	226	NV	74	S/250	
2-143	Lebanon, Riyāq	9G	33:45 N; 35:55 E	20	118:26	71	226	NV	73	S/250	
2-144	U.S.S.R., Emba River		48:15 N; 57:45 E	20	118:32	71	226	NV	52	S/250	
†6-323	Pacific (clouds)	3A		23		123	226	HO		N/35	
†6-324	Pacific (clouds)	3A		23		123	226	HO		N/35	
†6-325	Pacific (clouds)	3A		23		123	226	HO		N/35	
†6-326	Pacific (clouds)	3A		23		123	226	HO		N/35	
†6-327	Pacific (clouds)	3A		23		123	226	HO		N/35	
6-328	U.S., Olympic Mts.	4B	48:30 N; 123:20 W	23	201:23	123	226	NV	62	N/35	
6-329	U.S., Olympic Mts.	4B	48:20 N; 122:25 W	23	201:23	123	226	NV	62	N/35	
6-330	Canada, Saskatchewan		51:40 N; 105:10 W	23	201:26	123	226	NV	52	N/35	50% clouds
6-331	Australia, Cape York		12:00 S; 143:00 E	23	202:29	124	228	HO	27	N/35	40% clouds
†6-332	Pacific (clouds)	3A		23		124	227	HO		N/35	
†6-333	Pacific (clouds)	3A		23		124	227	HO		N/35	
†6-334	Pacific (clouds)	3A		23		124	227	HO		N/35	
†6-335	Pacific (clouds)	3A		23		124	227	HO		N/35	
6-336	Canada, British Columbia	4A	50:50 N; 119:35 W	23	202:56	124	226	NV	44	N/35	80% clouds
6-337	Canada, British Columbia	4A	51:00 N; 118:50 W	23	202:56	124	226	NV	44	N/35	Partial frame
6-338	Canada, British Columbia	4A	51:40 N; 118:25 W	23	202:56	124	226	NV	44	N/35	10% clouds
6-339	Canada, British Columbia	4A	51:30 N; 118:30 W	23	202:56	124	226	NV	44	N/35	10% clouds
6-340	Canada, British Columbia	4A	52:20 N; 116:35 W	23	202:56	124	226	NV	42	N/35	5% clouds
†*6-341	Atlantic (clouds)	3A	39:00 N; 70:00 W	23	203:05	125	222	NV	6	N/35	Partial frame
†*6-342	Atlantic (clouds)	3A	39:00 N; 70:00 W	23	203:05	125	222	NV	6	N/35	Partial frame
†*6-343	Atlantic (clouds)	3A	39:00 N; 70:00 W	23	203:05	125	222	NV	6	N/35	Partial frame
7-377	U.S., Willcox Lake		33:25 N; 110:50 W	22	174:38	106	226	HO	88	N/35	15% clouds
7-378	U.S., Rio Grande		34:30 N; 109:50 W	22	174:39	106	226	HO	87	N/35	20% clouds
7-379	U.S., Rio Grande		35:30 N; 106:00 W	22	174:39	106	226	LO	83	N/35	30% clouds
7-380	U.S., Republican River		40:35 N; 100:35 W	22	174:41	106	228	LO	77	N/35	20% clouds
7-381	U.S., Platte River		40:40 N; 99:50 W	22	174:41	106	228	LO	77	N/35	20% clouds
7-382	U.S., Missouri River		42:45 N; 98:35 W	22	174:41	106	228	HO	75	N/35	50% clouds
7-383	U.S., South Dakota		44:00 N; 99:00 W	22	174:42	106	228	LO	75	N/35	60% clouds
7-384	U.S., Mississippi River		44:25 N; 92:15 W	22	174:43	106	229	LO	68	N/35	40% clouds

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7-385	U.S., Mississippi River		44:15 N; 90:45 W	22	174:43	106	229	LO	68	N/35	15% clouds
7-386	U.S., Lake Winnebago		44:05 N; 89:00 W	22	174:43	106	229	LO	67	N/35	5% clouds
7-387	U.S., Lake Michigan		44:15 N; 88:00 W	22	174:44	106	229	LO	66	N/35	5% clouds
7-388	U.S., Lake Superior	4C	46:40 N; 88:30 W	22	174:44	106	229	NV	63	N/35	30% clouds
7-389	U.S., Lake Superior	4C	46:40 N; 87:00 W	22	174:44	106	229	NV	63	N/35	20% clouds
7-390	Canada, Quebec		50:00 N; 72:00 W	22	174:45	106	229	NV	53	N/35	50% clouds
7-391	Canada, Quebec		50:10 N; 69:45 W	22	174:45	106	229	NV	53	N/35	Underexposed
†7-392	Canada (clouds)			22		107	229	HO		N/35	
†7-393	Canada (clouds)			22		107	229	HO		N/35	
†7-394	Canada (clouds)			22		107	229	HO		N/35	
7-396	Algeria		36:20 N; 3:20 E	22	174:59	107	219	NV	3	N/35	Underexposed
†7-397	Tasman Sea (clouds)			22		107	220	LO		N/35	Partial frame
†7-398	Tasman Sea (clouds)			22		107	220	LO		N/35	Partial frame
7-399	New Zealand, N.Is. and N. Cape	1	35:20 S; 173:40 E	22	175:35	107	222	NV	5	N/35	Underexposed
7-400	U.S., California	2A	36:30 N; 122:10 W	22	176:09	107	228	HO	83	N/35	40% clouds
7-401	U.S., Sierra Nevada	2A2C	35:30 N; 119:15 W	22	176:09	107	228	HO	83	N/35	
7-402	U.S., Sierra Nevada	2A	36:25 N; 119:05 W	22	176:09	107	228	HO	82	N/35	
7-403	U.S., Sierra Nevada	2A	36:50 N; 118:45 W	22	176:10	107	229	LO	82	N/35	
7-404	U.S., Great Salt Lake	2D	41:10 N; 112:50 W	22	176:11	107	229	NV	73	N/35	20% clouds
7-405	U.S., Great Salt Lake	2D	41:00 N; 113:00 W	22	176:11	107	229	NV	73	N/35	20% clouds
7-406	U.S., Great Salt Lake	2D	41:25 N; 111:50 W	22	176:11	107	229	NV	72	N/35	20% clouds
†7-414	Pacific (clouds)	3A		22		108	229	LO		N/35	
†7-415	Pacific (clouds)	3A		22		108	229	LO		N/35	
7-416	U.S., Puget Sound	4B	47:30 N; 124:00 W	22	177:42	108	229	NV	59	N/35	
7-417	U.S., Puget Sound	4B	47:45 N; 123:00 W	22	177:43	108	229	NV	58	N/35	
7-418	U.S., Puget Sound	4B	47:45 N; 123:00 W	22	177:43	108	229	NV	58	N/35	
7-425	Indonesia, Sabang		5:50 N; 95:30 E	22	183:22	112	221	NV	57	N/35	40% clouds
†7-426	Thailand			22	183:23	112	221	LO	60	N/35	Hazy
†7-427	Thailand, Thale Phuket		8:55 N; 98:00 E	22	183:23	112	221	LO	62	N/35	25% clouds
†7-428	Thailand, Kra Peninsula		9:00 N; 98:05 E	22	183:23	112	221	LO	62	N/35	40% clouds
†8-441	Atlantic (clouds)	3A		21		91	226	LO		N/35	
8-442	France, Brittany		49:00 N; 3:40 W	21	149:45	91	226	HO	12	N/35	50% clouds
8-443	France, Brittany		49:00 N; 4:00 W	21	149:45	91	226	HO	12	N/35	50% clouds
8-444	France, Dover Strait		51:20 N; 0:35 E	21	149:46	91	226	NV	13	N/35	60% clouds
8-445	France, Dover Strait		51:30 N; 0:30 E	21	149:46	91	226	NV	13	N/35	60% clouds
8-446	U.S., Cedar Lake		33: ? N; 102: ? W	21	150:55	91	225	NV	79	N/300	Overexposed
8-447	U.S., Loving		32:20 N; 104:32 W	21	150:59	91	225	NV	81	N/300	Overexposed
†8-449	U.S., Mississippi River			21		91		NV		N/300	Hazy
8-450	U.S., Lake Michigan		41:40 N; 87:25 W	21	151:04	91	227	NV	65	N/300	Hazy
8-451	U.S., Lake Michigan		41:40 N; 87:25 W	21	151:04	91	227	NV	65	N/300	Hazy
*8-453	U.S., Highland Park		42:15 N; 87:50 W	21	151:04	91	227	NV	64	N/300	Overexposed
8-454	U.S., Waukegan		42:25 N; 87:55 W	21	151:04	91	227	NV	64	N/300	
8-455	U.S., Lake Wilmette		41:55 N; 87:50 W	21	151:04	91	227	NV	64	N/300	
8-456	U.S., Lake Michigan		41:40 N; 86:10 W	21	151:04	91	227	NV	63	N/300	
8-457	U.S., Lake Michigan		41:40 N; 86:10 W	21	151:04	91	227	NV	63	N/300	
†8-458	Atlantic (clouds)	3A		21		92	227	HO		N/35	
8-459	Canada, Magdalen Is.		47:30 N; 62:30 W	21	151:08	92	227	HO	31	N/35	
8-471	Peru, Humboldt Current	7A	14:10 S; 76:00 W	22	169:56	104	219	NV	36	N/35	30% clouds

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8-472	Peru, Andes Mts.		12:25 S; 75:00 W	22	169:58	104	218	NV	38	N/35	20% clouds
8-473	Brazil, Amazon River		10:50 S; 74:00 W	22	169:58	104	218	NV	39	N/35	20% clouds
8-474	Brazil, Amazon River		4:30 S; 71:00 W	22	170:00	104	218	NV	47	N/35	5% clouds
8-475	Brazil, Amazon River		4:00 S; 70:00 W	22	170:00	104	218	NV	48	N/35	20% clouds
8-476	Brazil, Amazon River		4:00 S; 71:30 W	22	170:00	104	218	NV	48	N/35	10% clouds
8-477	Brazil, Amazon River		2:30 S; 66:25 W	22	170:02	104	218	NV	52	N/35	Partial frame
8-478	Brazil, Rio Negro		0:00; 65:50 W	22	170:02	104	218	NV	54	N/35	Partial frame
8-479	Venezuela, Orinoco River	7E	8:10 N; 60:50 W	22	170:05	104	219	LO	64	N/35	70% clouds
8-480	Venezuela, Orinoco River	7E	9:20 N; 61:35 W	22	170:05	104	219	LO	66	N/35	40% clouds
8-481	Venezuela, Orinoco River	7E	9:45 N; 61:45 W	22	170:05	104	219	NV	66	N/35	30% clouds
8-482	Venezuela, Orinoco River	7E	8:40 N; 60:20 W	22	170:05	104	219	NV	66	N/35	Partial frame
8-495	Canada, Nova Scotia		45:45 N; 64:20 W	22	173:15	106	227	NV	53	N/35	30% clouds
8-496	Canada, Prince Edward Is.		46:30 N; 63:10 W	22	173:15	106	227	NV	51	N/35	40% clouds
8-497	Canada, Prince Edward Is.		46:40 N; 62:55 W	22	173:15	106	227	NV	51	N/35	40% clouds
8-498	Canada, Prince Edward Is.		46:25 N; 63:10 W	22	173:16	106	227	NV	51	N/35	50% clouds
†9-504	Atlantic			18		42	226	NV		S/50	Partial frame
†9-505	Atlantic			18		42	226	NV		S/50	Partial frame
†9-506	Atlantic			18		42	226	NV		S/50	Partial frame
†9-507	Atlantic			18		42	226	NV		S/50	Partial frame
†9-508	Atlantic			18		42	226	NV		S/50	Partial frame
†9-509	Atlantic			18		42	226	NV		S/50	Partial frame
†9-510	Atlantic			18		42	226	NV		S/50	Partial frame
†9-511	Atlantic			18		42	226	NV		S/50	Partial frame
9-512	Libya, Gefara Desert	9I	31:50 N; 10:15 E	18	72:30	42	226	NV	70	S/50	Partial frame
9-513	Libya, Tripoli	9J	31:15 N; 10:45 E	18	72:30	42	226	NV	70	S/50	
9-514	Libya, Tripoli	9J	31:30 N; 10:50 E	18	72:30	42	226	NV	70	S/50	
9-515	Libya, Tripoli	9J	32:40 N; 13:40 E	18	72:31	42	227	NV	68	S/50	
9-516	Libya, Tripoli	9J	32:50 N; 13:45 E	18	72:31	42	227	NV	68	S/50	
9-517	Libya, Tripoli	9J	33:10 N; 14:00 E	18	72:31	42	227	NV	67	S/50	
9-518	Italy, Sicily		38:30 N; 19:00 E	18	72:32	42	228	LO	62	S/50	
9-519	Greece, Corfu Is.		37:55 N; 20:40 E	18	72:32	42	228	LO	61	S/50	
9-520	Greece, Corfu Is.		38:10 N; 20:55 E	18	72:32	42	228	LO	61	S/50	
9-521	Greece, Peloponnesus		38:20 N; 21:05 E	18	72:32	42	228	NV	61	S/50	Partial frame
9-522	Mexico, Guatemala	5D	14:25 N; 92:10 W	18	78:20	45	222	NV	86	S/50	30% clouds
9-523	Mexico, Guatemala	5D	15:20 N; 92:10 W	18	78:20	45	222	NV	86	S/50	40% clouds
9-524	Mexico, Pacific	5D	16:40 N; 93:00 W	18	78:21	45	223	NV	88	S/50	40% clouds
9-525	Mexico, Yucatán Peninsula	5ASD	20:40 N; 87:40 W	18	78:23	45	224	NV	83	S/50	Partial frame
9-526	Mexico, Yucatán Peninsula	5ASD	21:25 N; 87:20 W	18	78:23	45	224	NV	83	S/50	Partial frame
9-527	Mexico, Yucatán Peninsula	5ASD	21:10 N; 88:00 W	18	78:23	45	224	NV	83	S/50	Partial frame
†9-528	Cloud features	3A		18		45	224	LO		S/50	Partial frame
†9-529	Cloud features	3A		18		45	224	LO		S/50	Partial frame
†9-530	Cloud features	3A		18		45	224	LO		S/50	Partial frame
†9-531	Cloud features	3A		18		45	224	LO		S/50	Partial frame

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†9-532	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-533	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-534	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-535	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-536	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-537	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-538	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-539	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-540	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-541	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-542	Cloud features	3A		18		46	225	LO		S/50	Partial frame
†9-543	Cloud features	3A		18		46	225	LO		S/50	Partial frame
9-544	Mexico, Baja California	2E2B	28:50 N; 113:00 W	18	79:53	46	225	HO	83	S/50	Partial frame
9-545	Mexico, Baja California	2E2B	28:00 N; 110:00 W	18	79:54	46	226	HO	80	S/50	Partial frame
†9-546	Cloud features	3A		19		56	222	HO		S/50	Partial frame
†9-547	Cloud features	3A		19		56	222	HO		S/50	Partial frame
†9-548	Cloud features	3A		19		56	222	HO		S/50	Partial frame
†9-549	Cloud features	3A		19		56	222	HO		S/50	Partial frame
9-550	Chad, Lake Chad		13:40 N; 14:10 E	19	94:38	56	222	LO	78	S/50	Partial frame
9-551	Chad, Lake Chad		14:00 N; 15:30 E	19	94:38	56	222	LO	78	S/50	Partial frame
9-552	Chad, Bodele Basin		19:40 N; 20:00 E	19	94:40	56	223	HO	87	S/50	Partial frame
9-553	Egypt, Oweinat Mt.	9I	22:00 N; 24:35 E	19	94:42	56	224	HO	89	S/50	
9-554	Egypt, Oweinat Mt.	9I	22:20 N; 24:40 E	19	94:42	56	224	HO	89	S/50	
9-555	Egypt, Nile Delta	9F	30:10 N; 31:10 E	19	94:43	56	225	NV	78	S/50	Partial frame
9-556	Egypt, Nile Delta	9F	30:10 N; 31:15 E	19	94:43	56	225	NV	78	S/50	
9-557	Egypt, Nile Delta	9F	30:10 N; 31:25 E	19	94:43	56	225	NV	78	S/50	
9-558	Egypt, Nile Delta	9F	31:20 N; 32:20 E	19	94:44	56	226	NV	78	S/50	Partial frame
9-559	Levantine Rift zone	9G	29:00 N; 34:20 E	19	94:44	56	226	LO	78	S/50	
9-560	Levantine Rift zone	9G	28:15 N; 35:15 E	19	94:45	56	226	HO	78	S/50	
9-561	Levantine Rift zone	9G	33:20 N; 35:30 E	19	94:45	56	226	NV	74	S/50	
9-562	Levantine Rift zone	9G	33:20 N; 35:30 E	19	94:45	56	226	NV	74	S/50	
9-563	Levantine Rift zone	9G	33:35 N; 35:55 E	19	94:46	56	227	NV	74	S/50	Partial frame
9-564	Levantine Rift zone	9G	33:45 N; 35:50 E	19	94:46	56	227	LO	73	S/50	
9-565	U.S.S.R., Caspian Sea		43:25 N; 51:20 E	19	94:49	56	229	NV	58	S/50	
9-566	U.S.S.R., Caspian Sea		44:45 N; 50:45 E	19	94:49	56	229	LO	56	S/50	Partial frame
9-567	U.S.S.R., Irtysh River		51:00 N; 79:30 E	19	94:54	56	232	NV	37	S/50	Underexposed
9-568	U.S.S.R., Irtysh River		51:00 N; 80:10 E	19	94:54	56	232	NV	36	S/50	Underexposed
9-569	U.S.S.R., Irtysh River		51:00 N; 81:00 E	19	94:54	56	232	NV	35	S/50	Underexposed
†10-576	Pacific (clouds)	3A		24		134	217	LO		N/35	
†10-577	Pacific (clouds)	3A		24		134	217	LO		N/35	
10-578	Galapagos Is.	7F	1:35 S; 91:35 W	24	218:47	134	217	NV	44	N/35	70% clouds
10-579	Galapagos Is.	7F	0:00 ; 91:10 W	24	218:47	134	217	NV	45	N/35	50% clouds
†10-580	Pacific (clouds)	3A		24		134	217	HO		N/35	
10-581	Costa Rica, San Juan River		9:45 N; 83:15 W	24	218:50	134	218	NV	56	N/35	Hazy
10-582	Costa Rica/Lake Nicaragua		12:10 N; 85:50 W	24	218:50	134	218	LO	57	N/35	Hazy
10-583	Costa Rica, Caribbean	7G	10:30 N; 83:30 W	24	218:50	134	218	NV	58	N/35	Hazy
10-584	Caribbean	7G	12:20 N; 81:40 W	24	218:52	134	219	NV	61	N/35	30% clouds
10-585	Caribbean	7G	14:00 N; 81:00 W	24	218:52	135	219	NV	63	N/35	20% clouds
10-586	Caribbean, Jamaica	7G	17:30 N; 77:55 W	24	218:53	135	220	NV	67	N/35	Hazy
10-587	Caribbean, Jamaica	7G	18:15 N; 77:05 W	24	218:53	135	220	NV	68	N/35	

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10-588	Caribbean, Cuba	7G	22:05 N; 79:20 W	24	218:54	135	220	HO	69	N/35	
10-589	Caribbean, Cuba	7G	21:20 N; 77:40 W	24	218:54	135	220	LO	70	N/35	
10-590	Caribbean, Cuba	7G	20:05 N; 76:15 W	24	218:54	135	220	NV	71	N/35	Partial frame
10-591	Caribbean, Cuba	7G	20:20 N; 75:30 W	24	218:54	135	220	NV	71	N/35	20% clouds
10-592	Caribbean, Bahamas	7G	23:20 N; 76:30 W	24	218:55	135	221	LO	73	N/35	30% clouds
10-593	Caribbean, Bahamas	7G	22:30 N; 74:25 W	24	218:55	135	221	LO	74	N/35	10% clouds
10-594	Caribbean, Bahamas	7G	22:50 N; 74:35 W	24	218:55	135	221	NV	74	N/35	10% clouds
10-595	Caribbean, Bahamas	7G	23:40 N; 75:30 W	24	218:55	135	221	NV	74	N/35	20% clouds
10-596	Bermuda, Atlantic		32:20 N; 64:30 W	24	219:00	135	223	NV	87	N/35	
†10-597	Atlantic (clouds)	3A		24		135	223	LO		N/35	
†10-599	Ireland (clouds)			24		135	226	LO		N/35	
10-600	England, Lundy Isle		51:40 N; 4:40 W	24	219:13	135	226	NV	45	N/35	60% clouds
10-601	Netherlands		51:35 N; 4:10 E	24	219:13	135	226	NV	45	N/35	70% clouds
10-602	Netherlands		52:00 N; 4:00 E	24	219:13	135	226	NV	44	N/35	60% clouds
†10-603	Western Europe			24		135	226	NV		N/35	Hazy
†10-604	Western Europe			24		135	226	NV		N/35	Hazy
†10-605	Western Europe			24		135	226	NV		N/35	Hazy
10-606	Romania, Danube Delta	9M	46:10 N; 27:10 E	24	219:17	135	227	LO	24	N/35	Hazy
10-607	Romania, Danube Delta	9M	45:25 N; 28:20 E	24	219:18	135	222	LO	23	N/35	10% clouds
10-608	Romania, Danube Delta	9M	45:15 N; 29:30 E	24	219:18	135	222	LO	23	N/35	Hazy
10-609	Romania, Danube Delta	9M	45:30 N; 29:55 E	24	219:18	135	222	LO	22	N/35	Hazy
10-610	U.S.S.R., Crimean Peninsula		44:40 N; 32:00 E	24	219:19	135	222	NV	20	N/35	Hazy
10-611	Turkey, Black Sea		42:45 N; 35:15 E	24	219:20	135	219	NV	18	N/35	Hazy
10-612	Turkey, Euphrates River		40:00 N; 37:30 E	24	219:21	135	218	LO	16	N/35	Hazy
10-613	Turkey, Euphrates River		40:10 N; 38:00 E	24	219:21	135	218	LO	16	N/35	Hazy
10-614	Turkey, NE		39:35 N; 39:50 E	24	219:21	135	218	LO	14	N/35	25% clouds
10-615	Turkey, Lake Van		39:10 N; 41:45 E	24	219:21	135	218	NV	12	N/35	Hazy
10-616	Turkey, Lake Van		38:40 N; 42:30 E	24	219:21	135	218	NV	11	N/35	Hazy
10-617	Turkey, Lake Van		38:15 N; 42:55 E	24	219:21	135	218	NV	11	N/35	Hazy
10-618	Turkey, Lake Urmia		37:40 N; 44:50 E	24	219:22	135	217	NV	8	N/35	Hazy
10-619	Turkey, Lake Urmia		36:50 N; 45:00 E	24	219:22	135	217	NV	8	N/35	Hazy
10-620	Iraq, Zagros Mts.		35:35 N; 45:40 E	24	219:22	135	217	NV	8	N/35	Hazy
10-621	Iraq, Zagros Mts.		35:15 N; 46:25 E	24	219:22	135	217	NV	8	N/35	Hazy
10-622	Iraq, Zagros Mts.		34:40 N; 47:10 E	24	219:22	135	216	NV	7	N/35	Hazy
*10-623	Iraq, Zagros Mts.		34:10 N; 47:25 E	24	219:22	135	216	NV	7	N/35	Overexposed
†10-624	Iran, NW			24		135				N/35	Poor image
10-625	Mexico, Acapulco		16:50 N; 99:30 W	24	220:20	135	220	NV	65	N/35	Hazy
†10-626	Mexico, Gulf of Mexico			24		135	220	NV		N/35	Hazy
†10-627	Mexico, Gulf of Mexico			24		135	220	NV		N/35	Hazy
†10-628	Mexico, Gulf of Mexico			24		135	220	NV		N/35	Hazy
10-629	U.S., Chesapeake Bay	5G	37:50 N; 76:10 W	24	220:30	136	224	LO	83	N/35	Hazy
10-630	U.S., Cape Cod		41:25 N; 71:05 W	24	220:32	136	225	LO	78	N/35	Hazy
10-631	U.S., Cape Cod		41:50 N; 72:50 W	24	220:32	136	225	LO	78	N/35	Hazy
10-632	U.S., Cape Cod		42:10 N; 70:30 W	24	220:32	136	226	LO	77	N/35	Hazy

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10-633	Canada, Prince Edward Is.		45:35 N; 63:15 W	24	220:34	136	226	LO	71	N/35	Hazy
10-634	Canada, Prince Edward Is.		46:00 N; 63:20 W	24	220:34	136	226	LO	70	N/35	Hazy
10-635	France, Rochefort		47:30 N; 2:25 W	24	220:45	136	223	LO	31	N/35	Partial frame
10-636	France, Nantes		47:10 N; 1:40 W	24	220:45	136	223	LO	30	N/35	Partial frame
10-637	France, Nantes		47:10 N; 1:40 W	24	220:45	136	223	LO	30	N/35	Partial frame
10-638	France, Maritime Alps	9L	43:30 N; 4:00 E	24	220:46	136	222	LO	27	N/35	30% clouds
10-639	France, Maritime Alps	9L	44:30 N; 5:00 E	24	220:46	136	222	LO	26	N/35	30% clouds
10-640	France, Maritime Alps	9L	44:30 N; 5:40 E	24	220:46	136	222	LO	28	N/35	
11-645	Australia, western		24:20 S; 117:35 E	20	132:58	80	223	LO		N/35	Hazy
11-646	Australia, western		26:55 S; 115:40 E	20	132:58	80	223	LO		N/35	Hazy
11-647	Australia, Anson Bay		12:50 S; 130:45 E	20	132:59	80	223	NV	41	N/35	Hazy
11-648	Australia, Mullet Bay		14:45 S; 130:30 E	20	132:59	80	223	LO	41	N/35	Hazy
11-649	Australia, Anson Bay		13:50 S; 130:00 E	20	132:59	80	223	NV	41	N/35	
11-650	Australia, Arnhem Land		11:30 S; 133:05 E	20	133:00	80	222	LO	44	N/35	Hazy
11-651	Australia, Malay Bay		11:35 S; 134:20 E	20	133:00	80	222	LO	44	N/35	Hazy
11-652	Australia, Cobourg Peninsula		11:05 S; 133:00 E	20	133:00	80	222	LO	44	N/35	Hazy
11-653	Indonesia, Japen Is.		0:10 S; 137:50 E	20	133:03	80	221	HO	60	N/35	Hazy
11-654	Indonesia, Mamberamo River		1:10 S; 136:30 E	20	133:03	80	221	LO	57	N/35	Hazy
†11-655	Pacific (clouds)	3A		20		80	221	LO		N/35	
†11-656	Pacific (clouds)	3A		20		80	221	LO		N/35	
†11-657	Pacific (clouds)	3A		20		80	221	LO		N/35	
†11-658	Pacific (clouds)	3A		20		80	221	LO		N/35	
†11-659	Pacific (clouds)	3A		20		80	221	HO		N/35	
†11-662	Indian Ocean (clouds)	3A		20		81	221	HO		N/35	
†11-663	Indian Ocean (clouds)	3A		20		81	221	HO		N/35	
11-664	Indonesia, Java		8:00 S; 111:55 E	20	134:31	81	222	LO	42	N/35	60% clouds
11-665	Indonesia, Java		7:30 S; 113:20 E	20	134:31	81	222	NV	45	N/35	30% clouds
11-666	Indonesia		8: ? S; 114: ? E	20	134:31	81	222	HO	45	N/35	60% clouds
†11-667	Indonesia, Madura Is.		8:20 S; 115:40 E	20	134:31	81	222	HO	44	N/35	60% clouds
†11-669	Philippines			20		81	222	LO		N/35	Partial frame
11-670	Philippines, Mindanao Is.		8:20 N; 123:55 E	20	134:35	81	221	NV	65	N/35	70% clouds
11-671	Philippines, Negros Is.		9:20 N; 123:50 E	20	134:35	81	221	NV	66	N/35	60% clouds
11-672	Philippines, Samar Is.		12:30 N; 127:00 E	20	134:36	81	222	NV	68	N/35	80% clouds
†11-673	Pacific (clouds)	3A		20		81	222	HO		N/35	
†11-674	Pacific (clouds)	3A		20		81	222	HO		N/35	
†11-675	Pacific (clouds)	3A		20		81	222	HO		N/35	
11-676	Italy, Adriatic Sea		42:00 N; 17:00 E	21	143:38	87	226	LO	61	N/35	
11-677	Mediterranean Sea		45:00 N; 12:30 E	21	143:39	87	226	HO	69	N/35	Overexposed
†11-678	Argentina, Andes Mts.	8B		21	144:40	88	227	LO	15	N/35	50% clouds
*11-679	Argentina, San Juan Dunes	8C	31:15 S; 68:10 W	21	144:43	88	227	NV	15	N/35	

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11-680	Argentina (salt pans)		27:00 S; 64:10 W	21	144:44	88	226	LO	21	N/35	Hazy
†11-681	Cloud features			21		88	226	LO		N/35	
†11-682	Cloud features			21		88	226	LO		N/35	
†11-683	Cloud features			21		88	226	LO		N/35	
†11-684	Cloud features			21		88	226	LO		N/35	
11-685	Portugal, Cape St. Vincent	9K	37:20 N; 8:30 W	21	145:06	88	225	NV	71	N/35	Blurred
11-686	Portugal, Cape St. Vincent	9K	37:20 N; 8:50 W	21	145:06	88	225	NV	71	N/35	Partial frame
11-687	Portugal/Spain	9K	43:00 N; 8:40 W	21	145:09	88	226	HO	68	N/35	Hazy
11-688	France, Gulf of Lion		43:30 N; 2:30 E	21	145:09	88	226	NV	61	N/35	Partial frame
11-689	France, mouth of Rhône River		44:05 N; 5:00 E	21	145:09	88	226	NV	59	N/35	20% clouds
†11-696	Pacific (clouds)	3A		21		89	222	LO		N/35	
11-697	Peru, Andes Mts.		13:00 S; 74:40 W	21	146:18	89	222	NV	37	N/35	20% clouds
11-698	Peru, Amazon Basin		11:30 S; 74:20 W	21	146:19	89	222	LO	37	N/35	30% clouds
†11-700	Brazil, Amazon Basin			21		89	226	HO		N/35	Overexposed
†11-701	Brazil, Amazon Basin			21		89	226	HO	61	N/35	Overexposed
†11-702	Brazil, Amazon Basin		1:15 S; 64:45 W	21	146:21	89	226	HO	61	N/35	Overexposed
†11-703	Brazil, Amazon Basin			21		89	226	HO		N/35	Overexposed
13-789	Mexico, Miguel Alemán Reservoir		18:40 N; 97:50 W	24	220:25	135	220	NV	66	S/50	30% clouds
13-790	Mexico, Miguel Alemán Reservoir		18:20 N; 97:15 W	24	220:25	135	220	NV	66	S/50	30% clouds
13-791	Mexico, Miguel Alemán Reservoir		18:40 N; 97:00 W	24	220:25	135	220	NV	67	S/50	30% clouds
†13-792	Cloud features	3A		24		135	220	NV		S/50	Partial frame
†13-793	Cloud features	3A		24		135	220	NV		S/50	Partial frame
†13-794	Cloud features	3A		24		135	220	NV		S/50	Partial frame
13-795	U.S., Chesapeake Bay	5G	37:15 N; 76:40 W	24	220:31	136	225	LO	84	S/50	20% clouds
13-796	U.S., Chesapeake Bay	5G	37:30 N; 76:30 W	24	220:31	136	225	NV	84	S/50	15% clouds
13-797	U.S., Chesapeake Bay	5G	37:35 N; 76:10 W	24	220:31	136	225	NV	84	S/50	15% clouds
13-798	U.S., Delaware Bay		38:45 N; 74:50 W	24	220:32	136	225	NV	83	S/50	10% clouds
13-799	U.S., Delaware Bay		38:55 N; 74:30 W	24	220:32	136	225	NV	83	S/50	Partial frame
13-800	U.S., Delaware Bay		39:10 N; 74:30 W	24	220:32	136	225	NV	82	S/50	Partial frame
13-801	U.S., Cape Cod	5F	41:20 N; 70:30 W	24	220:33	136	226	NV	76	S/50	50% clouds
13-802	U.S., Cape Cod	5F	41:35 N; 70:25 W	24	220:33	136	226	NV	76	S/50	50% clouds
13-803	U.S., Cape Cod	5F	41:35 N; 69:40 W	24	220:33	136	226	NV	78	S/50	Partial frame
†13-804	Canada, Miquelon Is.		46:40 N; 56:50 W	24	220:36	136	227	LO	66	S/50	80% clouds
†13-805	Canada, Miquelon Is.		46:45 N; 56:20 W	24	220:36	136	227	LO	66	S/50	80% clouds
†13-806	Canada, Miquelon Is.		47:05 N; 55:50 W	24	220:36	136	227	LO	65	S/50	70% clouds
†13-807	Cloud features	3A		24		136	226	LO		S/50	
†13-808	Cloud features	3A		24		136	226	LO		S/50	
†13-809	Cloud features	3A		24		136	226	LO		S/50	

Photo no., AST-	Description	Site	Coordinates of principal point, deg:min	Date, July 1975	GET hr:min	Rev.	Altitude, km	Tilt	Sun angle, deg.	Camera and lens	Remarks
†13-810	Cloud features	3A		24		136	226	LO		S/50	
†13-811	Cloud features	3A		24		136	226	LO		S/50	
†13-812	Cloud features	3A		24		136	226	LO		S/50	
†13-813	Cloud features	3A		24		136	226	LO		S/50	
*13-814	France, Normandy		49:20 N; 0:30 W	24	220:44	136	224	NV	28	S/50	5% clouds
13-815	France, Normandy		49:00 N; 1:50 W	24	220:44	136	224	LO	27	S/50	15% clouds
13-816	France, Loire River		47:50 N; 0:00	24	220:44	136	223	LO	29	S/50	Hazy
13-818	France, Bordeaux		46:20 N; 2:00 W	24	220:45	136	223	LO	27	S/50	Partial frame
13-819	France, Aquitaine		46:10 N; 1:20 W	24	220:46	136	223	LO	28	S/50	40% clouds
13-820	France, Bordeaux		45:20 N; 0:00	24	220:46	136	223	LO	30	S/50	50% clouds
13-821	France, Maritime Alps	9L	44:35 N; 7:30 E	24	220:47	136	223	LO	24	S/50	Hazy
13-822	France, Maritime Alps	9L	44:35 N; 7:30 E	24	220:47	136	223	LO	24	S/50	Hazy
13-823	France, Maritime Alps	9L	44:40 N; 8:25 E	24	220:47	136	223	LO	23	S/50	Hazy
13-824	France/Italy/Corsica		41:20 N; 9:20 E	24	220:47	136	223	HO	23	S/50	Hazy
13-825	Italy, Sardinia		42:30 N; 10:20 E	24	220:47	136	223	LO	22	S/50	Hazy
13-826	Italy/Corsica		42:40 N; 10:30 E	24	220:47	136	223	NV	22	S/50	Hazy
13-827	Italy/Corsica		42:40 N; 10:40 E	24	220:47	136	223	NV	22	S/50	Hazy
13-828	Italy/Corsica		42:50 N; 10:50 E	24	220:48	136	220	NV	21	S/50	Hazy
13-829	Italy, Tyrrhenian Sea		41:30 N; 12:10 E	24	220:48	136	220	NV	20	S/50	Hazy
13-830	Italy, Sicily	9O	41:30 N; 12:35 E	24	220:48	136	220	LO	20	S/50	Hazy
13-831	Italy, Sicily	9O	40:30 N; 13:50 E	24	220:48	136	220	LO	19	S/50	Hazy
13-832	Italy, Sicily	9O	40:30 N; 13:50 E	24	220:48	136	220	LO	19	S/50	Hazy
13-833	Italy, Sicily	9O	40:00 N; 13:10 E	24	220:48	136	220	NV	20	S/50	Hazy
13-834	Italy, Sicily	9O	37:50 N; 16:05 E	24	220:49	136	219	HO	17	S/50	Hazy
13-835	Italy, Sicily	9O	37:50 N; 16:05 E	24	220:49	136	219	HO	17	S/50	Hazy
13-836	Italy, Sicily	9O	37:20 N; 14:50 E	24	220:49	136	219	HO	18	S/50	Hazy
13-837	Italy, Sicily	9O	39:00 N; 16:00 E	24	220:49	136	219	LO	17	S/50	Hazy
13-838	Italy, Sicily	9O	39:30 N; 15:50 E	24	220:49	136	219	NV	17	S/50	Hazy
13-839	Greece, Cephalonia Is.		37:15 N; 19:30 E	24	220:49	136	219	NV	14	S/50	Hazy
13-840	Greece, Cephalonia Is.		37:15 N; 20:00 E	24	220:50	136	218	NV	14	S/50	Hazy
13-841	Greece, Cephalonia Is.		37:30 N; 20:20 E	24	220:50	136	218	NV	13	S/50	Hazy
†13-842	Mediterranean Sea			24		136	218	HO		S/50	Poor image
13-843	Libya/Egypt			24		136		HO		S/50	Hazy
13-844	Libya/Egypt			24		136		HO		S/50	Hazy
13-845	Libya/Egypt			24		136		HO		S/50	Hazy
13-846	Egypt, Gulf of Salûm		31:10 N; 25:40 E	24	220:52	136	215	HO	8	S/50	Hazy
13-847	Egypt, Gulf of Salûm		30:30 N; 25:40 E	24	220:52	136	215	HO	8	S/50	Hazy
13-848	Egypt, Gulf of Salûm		30:30 N; 25:20 E	24	220:52	136	215	HO	8	S/50	Hazy
*13-849	Egypt, Gulf of Salûm		30:10 N; 26:50 E	24	220:53	136	214	HO	6	S/50	Poor image
*13-850	Egypt, Qattara Depression	9D	30:10 N; 26:50 E	24	220:53	136	214	LO	6	S/50	Poor image
*13-851	Egypt, Qattara Depression	9D	29:30 N; 27:30 E	24	220:53	136	214	LO	5	S/50	Poor image
*13-852	Egypt, Qattara Depression	9D	29:20 N; 28:40 E	24	220:53	136	214	LO	4	S/50	Poor image
14-860	Pacific	M3	27:20 N; 125:20 W	16	34:04	17	187	V	62	B/100	80% clouds
14-861	Pacific	M3	28:00 N; 124:55 W	16	34:04	17	187	V	62	B/100	80% clouds
14-862	Pacific	M3	28:30 N; 124:40 W	16	34:04	17	187	V	62	B/100	70% clouds

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
14-863	Pacific	M3	28:45 N; 124:20 W	16	34:04	17	187	V	62	B/100	60% clouds
14-864	Pacific	M3	29:00 N; 124:00 W	16	34:04	17	187	V	61	B/100	60% clouds
14-865	Pacific	M3	29:25 N; 123:40 W	16	34:04	17	187	V	61	B/100	70% clouds
14-866	Pacific	M3	29:45 N; 123:20 W	16	34:04	17	187	V	61	B/100	70% clouds
14-867	Pacific	M3	30:00 N; 123:00 W	16	34:04	17	187	V	60	B/100	80% clouds
14-868	Pacific	M3	30:10 N; 122:40 W	16	34:04	17	187	V	60	B/100	80% clouds
14-869	Pacific	M3	30:30 N; 122:25 W	16	34:05	17	189	V	60	B/100	70% clouds
14-870	Pacific	M3	30:50 N; 122:00 W	16	34:05	17	189	V	59	B/100	60% clouds
14-871	Pacific	M3	31:00 N; 121:45 W	16	34:05	17	189	V	59	B/100	70% clouds
14-872	Pacific	M3	31:25 N; 121:20 W	16	34:05	17	189	V	58	B/100	70% clouds
14-873	Pacific	M3	31:50 N; 121:00 W	16	34:05	17	189	V	58	B/100	80% clouds
14-874	Pacific	M3	32:00 N; 120:45 W	16	34:05	17	189	V	58	B/100	80% clouds
14-875	Pacific	M3	32:20 N; 120:20 W	16	34:05	17	189	V	57	B/100	90% clouds
14-876	Pacific	M3	32:40 N; 120:00 W	16	34:05	17	189	V	57	B/100	100% clouds
14-877	U.S., San Nicolas Is.	M3	33:00 N; 119:45 W	16	34:05	17	189	V	57	B/100	90% clouds
14-878	U.S., San Nicolas Is.	M3	33:10 N; 119:20 W	16	34:05	17	189	V	56	B/100	80% clouds
14-879	U.S., Santa Catalina Is.	M3	33:30 N; 119:00 W	16	34:06	17	192	V	56	B/100	70% clouds
14-880	U.S., Santa Catalina Is.	M3	33:50 N; 118:40 W	16	34:06	17	192	V	56	B/100	30% clouds
14-881	U.S., San Gabriel Mts.	M3	34:10 N; 118:20 W	16	34:06	17	192	V	55	B/100	5% clouds
14-882	U.S., San Andreas Fault	M3	34:25 N; 118:00 W	16	34:06	17	192	V	55	B/100	
14-883	U.S., San Andreas Fault	M3	34:40 N; 117:30 W	16	34:06	17	192	V	55	B/100	
14-884	U.S., Edwards Air Force Base	M3	35:00 N; 117:10 W	16	34:06	17	192	V	54	B/100	
14-886	Angola, Cubango River	M5	17:00 S; 18:40 E	18	69:17	40	224	V	48	B/100	
14-887	Angola, Cuito River	M5	16:30 S; 19:10 E	18	69:17	40	224	V	48	B/100	
14-888	Angola, Cuito River	M5	15:50 S; 19:40 E	18	69:17	40	224	V	48	B/100	
14-889	Angola, Cuando River	M5	15:20 S; 20:00 E	18	69:18	40	224	V	48	B/100	
14-890	Angola, Cuando River	M5	14:50 S; 20:20 E	18	69:18	40	224	V	48	B/100	
14-891	Angola, Mussuma River	M5	14:15 S; 20:50 E	18	69:18	40	224	V	50	B/100	
14-892	Angola, Luio River	M5	13:50 S; 21:20 E	18	69:18	40	224	V	50	B/100	
14-893	Angola, Lungué Bungo River	M5	13:20 S; 21:40 E	18	69:18	40	224	V	50	B/100	
14-894	Angola, Lungué Bungo River	M5	12:50 S; 22:00 E	18	69:19	40	223	V	50	B/100	
14-895	Angola, Zambeze River	M5	12:20 S; 22:20 E	18	69:19	40	223	V	50	B/100	
14-896	Angola, Zambeze River	M5	11:40 S; 22:50 E	18	69:19	40	223	V	50	B/100	
14-897	Zaire, Zambeze River	M5	11:10 S; 23:10 E	18	69:19	40	223	V	50	B/100	
14-898	Zaire, Lulua River	M5	10:40 S; 23:40 E	18	69:19	40	223	V	50	B/100	
14-899	Zaire, Lubilash River	M5	10:00 S; 23:50 E	18	69:19	40	223	V	50	B/100	
14-900	Zaire, Lubilash River	M5	9:30 S; 24:20 E	18	69:20	40	223	V	53	B/100	
14-901	Zaire, Luina River	M5	9:00 S; 24:40 E	18	69:20	40	223	V	53	B/100	
14-902	Zaire, Lujima River	M5	8:30 S; 25:10 E	18	69:20	40	223	V	53	B/100	
14-903	Zaire, Lomami River	M5	8:00 S; 25:30 E	18	69:20	40	223	V	55	B/100	
14-904	Zaire, Kabongo	M5	7:30 S; 25:50 E	18	69:20	40	223	V	55	B/100	
14-905	Zaire, Luvidjo River	M5	7:00 S; 26:20 E	18	69:20	40	223	V	55	B/100	

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
14-906	Zaire, Lualaba River	M5	6:30 S; 26:40 E	18	69:20	40	223	V	55	B/100	
14-907	Zaire, Lualaba River	M5	5:50 S; 27:00 E	18	69:20	40	223	V	58	B/100	
14-908	Zaire, Lualaba River	M5	5:20 S; 27:30 E	18	69:21	40	223	V	58	B/100	15% clouds
14-909	Zaire	M5	4:50 S; 27:50 E	18	69:21	40	223	V	58	B/100	60% clouds
14-910	Zaire, Babuye	M5	4:20 S; 28:10 E	18	69:21	40	223	V	58	B/100	Hazy
14-911	Zaire, Mt. Mitumba	M5	3:45 S; 28:30 E	18	69:21	40	223	V	60	B/100	70% clouds
14-912	Zaire, Lake Tanganyika	M5	3:10 S; 29:00 E	18	69:21	40	223	V	60	B/100	70% clouds
14-913	Zaire	M5	2:40 S; 29:15 E	18	69:21	40	223	V	60	B/100	70% clouds
14-914	Rwanda, Lake Kivu	M5	2:10 S; 29:30 E	18	69:21	40	223	V	60	B/100	70% clouds
14-915	Rwanda	M5	1:30 S; 30:00 E	18	69:22	40	222	V	63	B/100	70% clouds
14-916	Rwanda	M5	1:00 S; 30:25 E	18	69:22	40	222	V	63	B/100	70% clouds
14-917	Uganda, Lake Nakivali	M5	0:30 S; 30:50 E	18	69:22	40	222	V	65	B/100	70% clouds
14-918	Uganda, Katonga River	M5	0:00; 31:10 E	18	69:22	40	222	V	65	B/100	70% clouds
14-919	Uganda	M5	0:30 N; 31:30 E	18	69:22	40	222	V	65	B/100	70% clouds
14-920	Uganda, Kafu River	M5	1:00 N; 32:00 E	18	69:22	40	222	V	65	B/100	70% clouds
14-921	Uganda, Lake Kyoga	M5	1:30 N; 32:20 E	18	69:23	40	222	V	65	B/100	70% clouds
14-922	Uganda, Lake Kwanja	M5	2:10 N; 32:40 E	18	69:23	40	222	V	68	B/100	70% clouds
14-923	Uganda	M5	2:30 N; 32:50 E	18	69:23	40	222	V	65	B/100	70% clouds
14-924	Uganda	M5	3:10 N; 33:20 E	18	69:23	40	222	V	65	B/100	70% clouds
14-925	Uganda	M5	3:50 N; 33:40 E	18	69:23	40	222	V	68	B/100	70% clouds
14-926	Uganda	M5	4:30 N; 33:50 E	18	69:23	40	222	V	68	B/100	50% clouds
14-927	Sudan, Elemei Triangle	M5	4:50 N; 34:10 E	18	69:23	40	222	V	68	B/100	40% clouds
14-928	Sudan, Elemei Triangle	M5	5:20 N; 34:30 E	18	69:24	40	222	V	70	B/100	40% clouds
14-929	Sudan, Elemei Triangle	M5	5:50 N; 35:00 E	18	69:24	40	222	V	70	B/100	30% clouds
14-930	Sudan	M5	6:20 N; 35:40 E	18	69:24	40	222	V	70	B/100	50% clouds
14-931	Sudan	M5	6:50 N; 36:10 E	18	69:24	40	222	V	70	B/100	70% clouds
14-932	Sudan	M5	7:15 N; 36:30 E	18	69:24	40	222	V	70	B/100	90% clouds
14-933	Sudan	M5	7:45 N; 36:50 E	18	69:24	40	222	V	73	B/100	80% clouds
14-934	Ethiopia, Omobottego River	M5	8:20 N; 37:20 E	18	69:25	40	223	V	73	B/100	60% clouds
14-935	Ethiopia	M5	9:00 N; 37:50 E	18	69:25	40	223	V	73	B/100	60% clouds
14-936	Ethiopia, Blue Nile River	M5	9:30 N; 38:10 E	18	69:25	40	223	V	73	B/100	30% clouds
14-937	Ethiopia, Blue Nile River	M5	10:10 N; 38:30 E	18	69:25	40	223	V	75	B/100	30% clouds
14-938	Ethiopia, Blue Nile River	M5	10:40 N; 39:00 E	18	69:25	40	223	V	75	B/100	40% clouds
14-939	Ethiopia, Bashilo River	M5	11:10 N; 39:10 E	18	69:26	40	223	V	75	B/100	60% clouds
14-940	Ethiopia	M5	11:40 N; 39:30 E	18	69:26	40	223	V	75	B/100	50% clouds
14-941	Ethiopia	M5	12:20 N; 40:00 E	18	69:26	40	223	V	75	B/100	30% clouds
14-942	Ethiopia, Afar Triangle	M5	12:50 N; 40:20 E	18	69:26	40	223	V	75	B/100	10% clouds
14-943	Ethiopia, Afar Triangle	M5	13:20 N; 40:50 E	18	69:26	40	223	V	78	B/100	
14-944	Ethiopia, Afar Triangle	M5	13:50 N; 41:10 E	18	69:26	40	223	V	78	B/100	

Photo no., AST-	Description	Site	Coordinates of principal point, deg:min	Date, July 1975	GET hr:min	Rev.	Altitude, km	Tilt	Sun angle, deg.	Camera and lens	Remarks
14-945	Ethiopia, Afar Triangle	M5	14:20 N; 41:40 E	18	69:27	40	223	V	78	B/100	
14-946	Red Sea	M5	14:50 N; 42:00 E	18	69:27	40	223	V	78	B/100	
14-947	Yemen	M5	15:20 N; 42:20 E	18	69:27	40	223	V	80	B/100	
14-948	Yemen	M5	15:50 N; 43:00 E	18	69:27	40	223	V	80	B/100	
14-949	Yemen	M5	16:30 N; 43:15 E	18	69:27	40	223	V	80	B/100	5% clouds
14-950	Yemen	M5	17:00 N; 43:40 E	18	69:27	40	224	V	80	B/100	30% clouds
14-951	Yemen	M5	17:30 N; 44:00 E	18	69:28	40	224	V	80	B/100	15% clouds
14-952	Saudi Arabia	M5	18:00 N; 44:25 E	18	69:28	40	224	V	83	B/100	5% clouds
14-953	Saudi Arabia	M5	18:30N; 44:50E	18	69:28	40	224	V	83	B/100	
14-954	Saudi Arabia	M5	19:00N; 45:20E	18	69:28	40	224	V	83	B/100	
14-955	Saudi Arabia	M5	19:25N; 45:40E	18	69:28	40	224	V	83	B/100	
14-956	Saudi Arabia	M5	19:58N; 46:05E	18	69:29	40	224	V	85	B/100	Overexposed
14-957	Saudi Arabia	M5	20:40N; 46:30E	18	69:29	40	224	V	85	B/100	Overexposed
14-958	Saudi Arabia	M5	21:00N; 47:00E	18	69:29	40	224	V	85	B/100	Overexposed
14-959	Saudi Arabia	M5	21:30N; 47:30E	18	69:29	40	224	V	85	B/100	Overexposed
14-960	Saudi Arabia	M5	22:00N; 48:00E	18	69:29	40	224	V	85	B/100	Overexposed
14-961	Saudi Arabia	M5	22:30N; 48:30E	18	69:29	40	224	V	85	B/100	
14-962	Saudi Arabia	M5	23:00N; 48:50E	18	69:30	40	225	V	90	B/100	Overexposed
14-963	Saudi Arabia	M5	23:30N; 49:20E	18	69:30	40	225	V	90	B/100	Overexposed
14-964	Saudi Arabia	M5	24:10N; 49:40E	18	69:30	40	225	V	90	B/100	Overexposed
14-965	Saudi Arabia	M5	24:40N; 50:10E	18	69:30	40	225	V	85	B/100	Overexposed
14-966	Saudi Arabia/Qatar	M5	25:10N; 50:30E	18	69:30	40	225	V	85	B/100	
14-967	Qatar	M5	25:30N; 51:00E	18	69:30	40	225	V	85	B/100	
14-968	Qatar	M5	26:00N; 51:30E	18	69:31	40	226	V	85	B/100	
*15-995	Mozambique	M4	24:30S; 34:30E	18	67:45	39	227	V	38	B/60	Partial frame
*15-996	Mozambique	M4	24:00S; 35:20E	18	67:45	39	227	V	38	B/60	Partial frame
*15-997	Mozambique	M4	23:30 S; 35:50 E	18	67:45	39	227	V	39	B/60	Poor image
*15-998	Indian Ocean	M4	23:00 S; 36:15 E	18	67:45	39	227	V	39	B/60	Poor image
*15-999	Indian Ocean	M4	22:30 S; 36:35 E	18	67:45	39	227	V	40	B/60	Poor image
*15-1000	Indian Ocean	M4	21:50 S; 37:10 E	18	67:45	39	227	V	41	B/60	Poor image
15-1001	Indian Ocean	M4	21:25 S; 37:35 E	18	67:45	39	227	V	41	B/60	Poor image
15-1002	Indian Ocean	M4	21:00 S; 38:00 E	18	67:46	39	226	V	42	B/60	
15-1003	Indian Ocean	M4	20:30 S; 38:20 E	18	67:46	39	226	V	42	B/60	
15-1004	Indian Ocean	M4	20:00 S; 38:55 E	18	67:47	39	225	V	44	B/60	
15-1005	Indian Ocean	M4	19:25 S; 39:20 E	18	67:47	39	225	V	44	B/60	
15-1006	Indian Ocean	M4	19:00 S; 39:50 E	18	67:47	39	225	V	45	B/60	
15-1007	Indian Ocean	M4	18:25 S; 40:10 E	18	67:47	39	225	V	46	B/60	
15-1008	Indian Ocean	M4	17:55 S; 40:40 E	18	67:47	39	225	V	46	B/60	
15-1009	Indian Ocean	M4	17:20 S; 41:00 E	18	67:48	39	224	V	47	B/60	
15-1010	Indian Ocean	M4	16:55 S; 41:20 E	18	67:48	39	224	V	48	B/60	
15-1011	Indian Ocean	M4	16:20 S; 41:55 E	18	67:48	39	224	V	48	B/60	
15-1012	Indian Ocean	M4	15:50 S; 42:15 E	18	67:48	39	224	V	49	B/60	
15-1013	Indian Ocean	M4	15:20 S; 42:45 E	18	67:48	39	224	V	50	B/60	
15-1014	Indian Ocean	M4	14:50 S; 43:00 E	18	67:48	39	224	V	50	B/60	
15-1015	Indian Ocean	M4	14:15 S; 43:30 E	18	67:49	39	224	V	51	B/60	
15-1016	Indian Ocean	M4	13:45 S; 43:55 E	18	67:49	39	224	V	52	B/60	
15-1017	Indian Ocean	M4	13:10 S; 44:20 E	18	67:49	39	224	V	52	B/60	
15-1018	Indian Ocean	M4	12:40 S; 44:40 E	18	67:49	39	224	V	53	B/60	
15-1019	Indian Ocean, Mayotte Is.	M4	12:10 S; 45:00 E	18	67:49	39	224	V	53	B/60	15% clouds
15-1020	Indian Ocean, Mayotte Is.	M4	11:40 S; 45:30 E	18	67:49	39	224	V	54	B/60	25% clouds
15-1021	Indian Ocean,	M4	11:00 S; 45:55 E	18	67:50	39	223	V	55	B/60	
15-1022	Indian Ocean	M4	10:30 S; 46:20 E	18	67:50	39	223	V	55	B/60	
15-1023	Indian Ocean	M4	10:00 S; 46:40 E	18	67:50	39	223	V	56	B/60	
15-1024	Indian Ocean	M4	9:30 S; 47:00 E	18	67:50	39	223	V	57	B/60	
15-1025	Indian Ocean	M4	9:00 S; 47:30 E	18	67:50	39	223	V	57	B/60	
15-1026	Indian Ocean	M4	8:30 S; 47:50 E	18	67:50	39	223	V	58	B/60	40% clouds
15-1027	Indian Ocean	M4	7:55 S; 48:10 E	18	67:50	39	223	V	59	B/60	30% clouds

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
15-1028	Indian Ocean	M4	7:35 S; 48:30 E	18	67:51	39	223	V	59	B/60	20% clouds
15-1029	Indian Ocean	M4	6:55 S; 49:00 E	18	67:51	39	223	V	60	B/60	20% clouds
15-1030	Indian Ocean	M4	6:20 S; 49:20 E	18	67:51	39	223	V	61	B/60	20% clouds
15-1031	Indian Ocean	M4	5:50 S; 49:45 E	18	67:51	39	223	V	61	B/60	15% clouds
15-1032	Indian Ocean	M4	5:15 S; 50:10 E	18	67:51	39	223	V	62	B/60	20% clouds
15-1033	Indian Ocean	M4	4:45 S; 50:30 E	18	67:52	39	223	V	62	B/60	25% clouds
15-1034	Indian Ocean	M4	4:10 S; 50:55 E	18	67:52	39	223	V	63	B/60	25% clouds
15-1035	Indian Ocean	M4	3:40 S; 51:15 E	18	67:52	39	223	V	64	B/60	25% clouds
15-1036	Indian Ocean	M4	3:10 S; 51:40 E	18	67:52	39	223	V	64	B/60	25% clouds
15-1037	Indian Ocean	M4	2:30 S; 52:00 E	18	67:52	39	223	V	65	B/60	25% clouds
15-1038	Indian Ocean	M4	2:00 S; 52:20 E	18	67:52	39	223	V	66	B/60	30% clouds
15-1039	Indian Ocean	M4	1:30 S; 52:50 E	18	67:53	39	223	V	66	B/60	25% clouds
15-1040	Indian Ocean	M4	1:00 S; 53:10 E	18	67:53	39	223	V	67	B/60	50% clouds
15-1041	Indian Ocean	M4	0:30 S; 53:30 E	18	67:53	39	223	V	67	B/60	40% clouds
15-1042	Indian Ocean	M4	0:10 N; 53:55 E	18	67:53	39	223	V	68	B/60	60% clouds
15-1043	Indian Ocean	M4	0:40 N; 54:20 E	18	67:53	39	223	V	69	B/60	60% clouds
15-1044	Indian Ocean	M4	1:10 N; 54:40 E	18	67:53	39	223	V	69	B/60	40% clouds
15-1045	Indian Ocean	M4	1:45 N; 55:00 E	18	67:54	39	222	V	70	B/60	50% clouds
15-1046	Indian Ocean	M4	2:20 N; 55:25 E	18	67:54	39	222	V	70	B/60	70% clouds
15-1047	Indian Ocean	M4	2:50 N; 55:50 E	18	67:54	39	222	V	71	B/60	90% clouds
15-1048	Indian Ocean	M4	3:20 N; 56:10 E	18	67:54	39	222	V	72	B/60	90% clouds
15-1049	Indian Ocean	M4	3:50 N; 56:30 E	18	67:54	39	222	V	72	B/60	50% clouds
15-1050	Indian Ocean	M4	4:25 N; 56:55 E	18	67:54	39	222	V	74	B/60	80% clouds
15-1051	Indian Ocean	M4	4:55 N; 57:20 E	18	67:54	39	223	V	75	B/60	30% clouds
15-1052	Indian Ocean	M4	5:20 N; 57:40 E	18	67:55	39	223	V	75	B/60	15% clouds
15-1053	Indian Ocean	M4	6:00 N; 58:00 E	18	67:55	39	223	V	77	B/60	30% clouds
15-1054	Indian Ocean	M4	6:30 N; 58:30 E	18	67:55	39	223	V	77	B/60	30% clouds
15-1055	Indian Ocean	M4	7:00 N; 58:50 E	18	67:55	39	223	V	78	B/60	30% clouds
15-1056	Indian Ocean	M4	7:30 N; 59:10 E	18	67:55	39	223	V	79	B/60	20% clouds
15-1057	Indian Ocean	M4	8:00 N; 59:30 E	18	67:56	39	223	V	79	B/60	
15-1058	Indian Ocean	M4	8:40 N; 60:00 E	18	67:56	39	223	V	80	B/60	
15-1059	Indian Ocean	M4	9:10 N; 60:20 E	18	67:56	39	223	V	81	B/60	
15-1060	Indian Ocean	M4	9:45 N; 60:45 E	18	67:56	39	223	V	81	B/60	
15-1061	Indian Ocean	M4	10:15 N; 61:10 E	18	67:56	39	223	V	82	B/60	
15-1062	Indian Ocean	M4	10:50 N; 61:30 E	18	67:56	39	223	V	83	B/60	
15-1063	Indian Ocean	M4	11:20 N; 62:00 E	18	67:57	39	223	V	84	B/60	
15-1064	Indian Ocean	M4	11:50 N; 62:20 E	18	67:57	39	223	V	84	B/60	
15-1065	Indian Ocean	M4	12:20 N; 62:45 E	18	67:57	39	223	V	85	B/60	
15-1066	Indian Ocean	M4	12:55 N; 63:00 E	18	67:57	39	223	V	87	B/60	
15-1067	Indian Ocean	M4	13:25 N; 63:30 E	18	67:57	39	223	V	87	B/60	
15-1068	Indian Ocean	M4	13:55 N; 63:55 E	18	67:57	39	223	V	88	B/60	
15-1069	Indian Ocean	M4	14:25 N; 64:20 E	18	67:58	39	223	V	88	B/60	
15-1070	Indian Ocean	M4	15:00 N; 64:40 E	18	67:58	39	223	V	89	B/60	
15-1071	Indian Ocean	M4	15:30 N; 65:10 E	18	67:58	39	223	V	90	B/60	
15-1072	Indian Ocean	M4	16:00 N; 65:30 E	18	67:58	39	223	V	89	B/60	
15-1073	Indian Ocean	M4	16:30 N; 66:00 E	18	67:58	39	223	V	88	B/60	
15-1074	Indian Ocean	M4	17:00 N; 66:20 E	18	67:58	39	223	V	88	B/60	
15-1075	Indian Ocean	M4	17:30 N; 66:50 E	18	67:59	39	224	V	87	B/60	
15-1076	Indian Ocean	M4	18:00 N; 67:10 E	18	67:59	39	224	V	86	B/60	60% clouds
15-1077	Arabian Sea	M4	18:30 N; 67:30 E	18	67:59	39	224	V	86	B/60	60% clouds
15-1078	Arabian Sea	M4	19:10 N; 68:00 E	18	67:59	39	224	V	85	B/60	50% clouds
15-1079	Arabian Sea	M4	19:40 N; 68:30 E	18	67:59	39	224	V	84	B/60	70% clouds
15-1080	Arabian Sea	M4	20:10 N; 68:55 E	18	67:59	39	224	V	84	B/60	80% clouds
15-1081	Arabian Sea	M4	20:20 N; 69:00 E	18	67:59	39	224	V	84	B/60	90% clouds
15-1082	Arabian Sea	M4	20:40 N; 69:30 E	18	68:00	39	225	V	83	B/60	90% clouds
15-1083	Arabian Sea	M4	21:10 N; 69:50 E	18	68:00	39	225	V	83	B/60	90% clouds
15-1084	India, Gujarat	M4	21:45 N; 70:10 E	18	68:00	39	225	V	82	B/60	90% clouds
15-1085	India, Gujarat	M4	22:10 N; 70:40 E	18	68:00	39	225	V	81	B/60	90% clouds
15-1086	India, Gujarat	M4	22:45 N; 71:00 E	18	68:00	39	225	V	81	B/60	100% clouds
15-1087	India, Gujarat	M4	23:10 N; 71:30 E	18	68:00	39	225	V	80	B/60	100% clouds

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
15-1088	India, Gujarat	M4	23:40 N; 72:00 E	18	68:01	39	225	V	79	B/60	90% clouds
15-1089	India, Gujarat	M4	24:10 N; 72:25 E	18	68:01	39	225	V	79	B/60	80% clouds
*15-1090	India, Gujarat	M4	24:40 N; 72:55 E	18	68:01	39	225	V	78	B/60	100% clouds
*15-1098	India, Uttar Pradesh	M4	28:40 N; 76:45 E	18	68:02	39	226	V	74	B/60	70% clouds
15-1099	India, Uttar Pradesh	M4	29:00 N; 77:15 E	18	68:02	39	226	V	72	B/60	70% clouds
15-1100	India, Uttar Pradesh	M4	29:30 N; 77:50 E	18	68:03	39	227	V	71	B/60	70% clouds
15-1101	India, Uttar Pradesh	M4	30:00 N; 78:10 E	18	68:03	39	227	V	70	B/60	60% clouds
15-1102	India, Uttar Pradesh	M4	30:30 N; 78:50 E	18	68:03	39	227	V	69	B/60	80% clouds
15-1103	India/Tibet	M4	31:00 N; 79:20 E	18	68:03	39	227	V	68	B/60	90% clouds
15-1104	Tibet	M4	31:30 N; 79:50 E	18	68:03	39	227	V	68	B/60	80% clouds
15-1105	Tibet	M4	32:00 N; 80:20 E	18	68:03	39	227	V	66	B/60	70% clouds
15-1106	Tibet	M4	32:20 N; 80:55 E	18	68:04	39	227	V	64	B/60	60% clouds
15-1107	Tibet	M4	32:50 N; 81:30 E	18	68:04	39	227	V	64	B/60	50% clouds
16-1121	Australia, Great Australian Bight	M6	34:50 S; 133:20 E	19	107:36	64	229	V	20	B/60	60% clouds
16-1122	Australia, Flinders Is.	M6	34:20 S; 133:50 E	19	107:36	64	229	V	20	B/60	25% clouds
16-1123	Australia, Anxious Bay	M6	33:40 S; 134:30 E	19	107:37	64	228	V	20	B/60	10% clouds
16-1124	Australia, Streaky Bay	M6	33:10 S; 135:10 E	19	107:37	64	228	V	25	B/60	
16-1125	Australia, Lake Gairdner	M6	32:40 S; 135:35 E	19	107:37	64	228	V	25	B/60	
16-1126	Australia, Lake Gairdner	M6	32:20 S; 136:10 E	19	107:37	64	228	V	25	B/60	
16-1127	Australia, Lake Gairdner	M6	31:50 S; 136:35 E	19	107:37	64	228	V	25	B/60	
16-1128	Australia, Lake Torrens	M6	31:25 S; 137:10 E	19	107:37	64	228	V	27	B/60	
16-1129	Australia, Lake Torrens	M6	30:55 S; 137:40 E	19	107:38	64	228	V	27	B/60	
16-1130	Australia, N. Flinders Mts.	M6	30:25 S; 138:10 E	19	107:38	64	228	V	27	B/60	
16-1131	Australia, N. Flinders Mts.	M6	29:50 S; 138:40 E	19	107:38	64	228	V	27	B/60	
16-1132	Australia, Lake Blanche	M6	29:30 S; 139:20 E	19	107:38	64	228	V	30	B/60	
16-1133	Australia, Lake Blanche	M6	29:00 S; 139:45 E	19	107:38	64	228	V	30	B/60	
16-1134	Australia, Lake Blanche	M6	28:40 S; 140:15 E	19	107:39	64	227	V	30	B/60	10% clouds
16-1135	Australia, Sturt Desert	M6	28:05 S; 140:40 E	19	107:39	64	227	V	30	B/60	40% clouds
16-1136	Australia, Queensland	M6	27:30 S; 141:10 E	19	107:39	64	227	V	30	B/60	70% clouds
16-1137	Australia, Queensland	M6	27:10 S; 141:30 E	19	107:39	64	227	V	30	B/60	90% clouds
16-1138	Australia, Queensland	M6	26:40 S; 142:00 E	19	107:39	64	227	V	35	B/60	95% clouds
16-1139	Australia, Queensland	M6	26:20 S; 142:30 E	19	107:39	64	227	V	35	B/60	95% clouds
16-1140	Australia, Queensland	M6	25:40 S; 143:00 E	19	107:40	64	226	V	35	B/60	90% clouds
16-1141	Australia, Queensland	M6	25:20 S; 143:20 E	19	107:40	64	226	V	35	B/60	70% clouds
16-1142	Australia, Barcoo River	M6	25:00 S; 143:40 E	19	107:40	64	226	V	35	B/60	40% clouds
16-1143	Australia, Barcoo River	M6	24:40 S; 143:55 E	19	107:40	64	226	V	35	B/60	20% clouds

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg.min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
16-1144	Australia, Aramac Creek	M6	23:45 S; 144:45 E	19	107:40	64	226	V	35	B/60	5% clouds
16-1145	Australia, Lake Galilee	M6	23:10 S; 145:20 E	19	107:40	64	226	V	35	B/60	
16-1146	Australia, Lake Galilee	M6	22:30 S; 146:05 E	19	107:41	64	225	V	35	B/60	
16-1147	Australia, Lake Buchanan	M6	22:00 S; 146:30 E	19	107:41	64	225	V	38	B/60	
16-1148	Australia, Lake Buchanan	M6	21:45 S; 146:45 E	19	107:41	64	225	V	38	B/60	10% clouds
16-1149	Australia, Cape Ross	M6	21:00 S; 147:15 E	19	107:41	64	225	V	38	B/60	20% clouds
16-1150	Australia, Burdekin River	M6	20:40 S; 147:40 E	19	107:41	64	225	V	38	B/60	40% clouds
16-1151	Australia, Great Barrier Reef	M6	20:10 S; 148:00 E	19	107:41	64	225	V	40	B/60	30% clouds
16-1152	Australia, Great Barrier Reef	M6	19:30 S; 148:25 E	19	107:42	64	224	V	40	B/60	20% clouds
16-1153	Australia, Great Barrier Reef	M6	19:10 S; 148:50 E	19	107:42	64	224	V	40	B/60	5% clouds
16-1154	Coral Sea, Great Barrier Reef	M6	18:40 S; 149:20 E	19	107:42	64	224	V	40	B/60	5% clouds
16-1155	Coral Sea, Abington Reef	M6	18:00 S; 149:50 E	19	107:42	64	224	V	40	B/60	5% clouds
16-1156	Coral Sea, Diamond Islets	M6	17:30 S; 150:10 E	19	107:42	64	224	V	45	B/60	5% clouds
16-1157	Coral Sea, Magdelaine Cays	M6	16:55 S; 150:30 E	19	107:42	64	224	V	45	B/60	15% clouds
16-1158	Coral Sea, Magdelaine Cays	M6	16:20 S; 151:00 E	19	107:42	64	224	V	45	B/60	25% clouds
16-1159	Coral Sea	M6	15:45 S; 151:30 E	19	107:43	64	224	V	45	B/60	25% clouds
16-1160	Coral Sea	M6	15:10 S; 152:00 E	19	107:43	64	224	V	45	B/60	25% clouds
16-1161	Coral Sea	M6	14:40 S; 152:25 E	19	107:43	64	224	V	45	B/60	25% clouds
16-1162	Coral Sea	M6	14:10 S; 152:50 E	19	107:43	64	224	V	45	B/60	35% clouds
16-1163	Coral Sea	M6	13:35 S; 153:15 E	19	107:43	64	224	V	48	B/60	50% clouds
16-1164	Coral Sea	M6	13:05 S; 153:40 E	19	107:43	64	224	V	48	B/60	70% clouds
16-1165	Coral Sea	M6	12:30 S; 154:10 E	19	107:44	64	223	V	48	B/60	70% clouds
*16-1166	Coral Sea	M6	12:00 S; 154:35 E	19	107:44	64	223	V	50	B/60	80% clouds
*16-1167	Solomon Sea	M6	11:30 S; 155:00 E	19	107:44	64	223	V	50	B/60	90% clouds
*16-1168	Solomon Sea	M6	10:55 S; 155:20 E	19	107:44	64	223	V	50	B/60	95% clouds
*16-1169	Solomon Sea	M6	10:20 S; 155:45 E	19	107:44	64	223	V	50	B/60	95% clouds
16-1170	Solomon Sea	M6	10:00 S; 156:00 E	19	107:44	64	223	V	50	B/60	90% clouds
16-1171	Solomon Sea	M6	9:40 S; 156:15 E	19	107:45	64	223	V	50	B/60	80% clouds
16-1172	Solomon Sea	M6	9:15 S; 156:30 E	19	107:45	64	223	V	50	B/60	50% clouds
16-1173	Solomon Is.	M6	8:40 S; 157:00 E	19	107:45	64	223	V	53	B/60	40% clouds
16-1174	Solomon Is.	M6	8:05 S; 157:20 E	19	107:45	64	223	V	53	B/60	40% clouds
16-1175	Solomon Is.	M6	7:30 S; 157:40 E	19	107:45	64	223	V	53	B/60	20% clouds
16-1176	Solomon Is.	M6	7:00 S; 158:00 E	19	107:45	64	223	V	55	B/60	20% clouds
16-1177	Solomon Is.	M6	6:30 S; 158:30 E	19	107:45	64	222	V	55	B/60	20% clouds
16-1178	Ontong Java Atoll	M6	6:00 S; 158:50 E	19	107:46	64	222	V	55	B/60	25% clouds
16-1179	Ontong Java Atoll	M6	5:30 S; 159:15 E	19	107:46	64	222	V	58	B/60	25% clouds
16-1180	Ontong Java Atoll	M6	5:00 S; 159:40 E	19	107:46	64	222	V	58	B/60	25% clouds
16-1181	Nukumanu Atoll	M6	4:25 S; 160:00 E	19	107:46	64	222	V	60	B/60	25% clouds
16-1182	Pacific	M6	3:55 S; 160:25 E	19	107:47	64	222	V	60	B/60	25% clouds
16-1183	Pacific	M6	3:20 S; 160:40 E	19	107:47	64	222	V	60	B/60	25% clouds
16-1184	Pacific	M6	2:45 S; 161:00 E	19	107:47	64	222	V	60	B/60	25% clouds
16-1185	Pacific	M6	2:10 S; 161:20 E	19	107:47	64	222	V	60	B/60	25% clouds
16-1186	Pacific	M6	1:50 S; 161:45 E	19	107:47	64	222	V	60	B/60	25% clouds
16-1187	Pacific	M6	1:15 S; 162:10 E	19	107:47	64	222	V	63	B/60	25% clouds
16-1188	Pacific	M6	0:40 S; 162:30 E	19	107:48	64	222	V	63	B/60	25% clouds

Photo no., AST-	Description	Site	Coordinates of principal point, deg:min	Date, July 1975	GET hr:min	Rev.	Altitude, km	Tilt	Sun angle, deg.	Camera and lens	Remarks
16-1189	Pacific	M6	0:10 S; 162:50 E	19	107:48	64	222	V	63	B/60	25% clouds
16-1190	Pacific	M6	0:50 N; 163:55 E	19	107:48	64	222	V	65	B/60	30% clouds
†16-1191	Pacific	M6	1:50 N; 163:40 E	19	107:48	64	222	V	65	B/60	40% clouds
†*16-1192	Atlantic	M7	2:41 S; 3:00 E	20	118:14	71	222	V	59	B/60	95% clouds
†*16-1193	Atlantic	M7	2:09 S; 3:23 E	20	118:14	71	222	V	60	B/60	95% clouds
†*16-1194	Atlantic	M7	1:37 S; 3:45 E	20	118:14	71	222	V	60	B/60	70% clouds
†*16-1195	Atlantic	M7	1:05 S; 4:08 E	20	118:14	71	222	V	61	B/60	70% clouds
†*16-1196	Atlantic	M7	0:30 S; 4:30 E	20	118:14	71	222	V	62	B/60	70% clouds
†*16-1197	Atlantic	M7	0:00 ; 4:53 E	20	118:14	71	222	V	62	B/60	80% clouds
†*16-1198	Atlantic	M7	0:30 N; 5:17 E	20	118:15	71	222	V	63	B/60	80% clouds
†*16-1199	Atlantic	M7	1:08 N; 5:40 E	20	118:15	71	222	V	64	B/60	95% clouds
*16-1206	Nigeria	M7	4:48 N; 8:17 E	20	118:16	71	222	V	68	B/60	Poor image
*16-1207	Nigeria	M7	5:20 N; 8:40 E	20	118:16	71	222	V	69	B/60	Poor image
*16-1208	Nigeria	M7	5:52 N; 9:03 E	20	118:16	71	222	V	70	B/60	Poor image
*16-1209	Nigeria	M7	6:24 N; 9:27 E	20	118:16	71	222	V	70	B/60	Poor image
*16-1210	Nigeria	M7	6:56 N; 9:50 E	20	118:16	71	222	V	71	B/60	Poor image
16-1211	Nigeria	M7	7:28 N; 10:13 E	20	118:17	71	222	V	72	B/60	80% clouds
*16-1212	Nigeria	M7	8:00 N; 10:36 E	20	118:17	71	222	V	73	B/60	80% clouds
*16-1213	Nigeria	M7	8:32 N; 11:00 E	20	118:17	71	222	V	73	B/60	85% clouds
*16-1214	Nigeria	M7	9:00 N; 11:22 E	20	118:17	71	222	V	74	B/60	95% clouds
*16-1215	Nigeria	M7	9:36 N; 11:46 E	20	118:18	71	222	V	75	B/60	95% clouds
*16-1216	Nigeria	M7	10:08 N; 12:10 E	20	118:18	71	222	V	75	B/60	100% clouds
*16-1217	Nigeria	M7	10:40 N; 12:34 E	20	118:18	71	222	V	76	B/60	100% clouds
*16-1218	Nigeria	M7	11:11 N; 12:57 E	20	118:18	71	222	V	76	B/60	100% clouds
16-1219	Nigeria	M7	11:43 N; 13:21 E	20	118:18	71	222	V	77	B/60	90% clouds
*16-1220	Nigeria, Lake Chad	M7	12:15 N; 13:45 E	20	118:19	71	222	V	78	B/60	90% clouds
*16-1221	Nigeria, Lake Chad	M7	12:45 N; 14:05 E	20	118:19	71	222	V	79	B/60	Overexposed
*16-1222	Chad, Lake Chad	M7	13:20 N; 14:30 E	20	118:19	71	222	V	79	B/60	Overexposed
*16-1223	Chad, Lake Chad	M7	13:50 N; 14:55 E	20	118:19	71	222	V	80	B/60	Poor image
*16-1224	Chad	M7	14:25 N; 15:20 E	20	118:19	71	222	V	81	B/60	Poor image
*16-1225	Chad, Kanem	M7	14:55 N; 15:45 E	20	118:20	71	222	V	81	B/60	Overexposed
16-1226	Chad, Bodele Basin	M7	15:25 N; 16:10 E	20	118:20	71	222	V	82	B/60	Overexposed
16-1227	Chad, Bodele Basin	M7	16:00 N; 16:33 E	20	118:20	71	222	V	83	B/60	Overexposed
16-1228	Chad, Bodele Basin	M7	16:26 N; 17:00 E	20	118:20	71	222	V	83	B/60	Overexposed
16-1229	Chad, Bodele Basin	M7	17:00 N; 17:22 E	20	118:20	71	222	V	84	B/60	Overexposed
16-1230	Chad, Bodele Basin	M7	17:30 N; 17:50 E	20	118:20	71	222	V	85	B/60	Overexposed
16-1231	Chad, Bodele Basin	M7	18:00 N; 18:15 E	20	118:21	71	223	V	86	B/60	Overexposed
16-1232	Chad, Bodele Basin	M7	18:30 N; 18:40 E	20	118:21	71	223	V	66	B/60	Overexposed
16-1233	Chad, Serir of Sarra	M7	19:00 N; 19:00 E	20	118:21	71	223	V	87	B/60	Overexposed
16-1234	Chad, Serir of Sarra	M7	19:32 N; 19:30 E	20	118:21	71	223	V	87	B/60	Overexposed
16-1235	Chad, Serir of Sarra	M7	20:00 N; 19:55 E	20	118:21	71	223	V	88	B/60	Overexposed
16-1236	Chad, Serir of Sarra	M7	20:33 N; 20:21 E	20	118:21	71	223	V	89	B/60	Overexposed
16-1237	Libya, Serir of Sarra	M7	21:00 N; 20:47 E	20	118:21	71	223	V	89	B/60	Overexposed
16-1238	Libya, Serir of Sarra	M7	21:34 N; 21:14 E	20	118:21	71	223	V	89	B/60	Overexposed
16-1239	Libya, Serir of Sarra	M7	22:00 N; 21:40 E	20	118:22	71	223	V	88	B/60	5% clouds
16-1240	Libya, Serir of Sarra	M7	22:35 N; 22:05 E	20	118:22	71	223	V	87	B/60	Overexposed
16-1241	Libya, Serir of Sarra	M7	23:00 N; 22:34 E	20	118:22	71	223	V	87	B/60	
16-1242	Libya, Kufra Oasis	M7	23:36 N; 23:00 E	20	118:22	71	223	V	86	B/60	
16-1243	Libya, Kufra Oasis	M7	24:07 N; 23:30 E	20	118:22	71	223	V	85	B/60	
16-1244	Libya, Serir of Sarra	M7	24:30 N; 23:55 E	20	118:22	71	223	V	85	B/60	
16-1245	Libya, Serir of Sarra	M7	25:00 N; 24:23 E	20	118:22	71	224	V	84	B/60	
16-1246	Libya/Egypt	M7	25:35 N; 24:51 E	20	118:23	71	224	V	83	B/60	
16-1247	Libya/Egypt	M7	26:00 N; 25:20 E	20	118:23	71	224	V	83	B/60	Overexposed
16-1248	Libya/Egypt	M7	26:34 N; 25:49 E	20	118:23	71	224	V	82	B/60	Overexposed
16-1249	Egypt/Libyan Sandsea	M7	27:00 N; 26:17 E	20	118:24	71	224	V	81	B/60	Overexposed
16-1250	Egypt/Libyan Sandsea	M7	27:30 N; 26:47 E	20	118:24	71	224	V	81	B/60	Overexposed
16-1251	Egypt/Libyan Sandsea	M7	28:00 N; 27:15 E	20	118:24	71	224	V	80	B/60	Overexposed

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
16-1252	Egypt/Libyan Sandsea	M7	28:30 N; 27:45 E	20	118:24	71	224	V	79	B/60	
16-1253	Egypt, Western Desert	M7	29:00 N; 28:15 E	20	118:24	71	224	V	79	B/60	
16-1254	Egypt, Western Desert	M7	29:30 N; 28:46 E	20	118:24	71	224	V	78	B/60	
16-1255	Egypt, Western Desert	M7	29:58 N; 29:17 E	20	118:24	71	224	V	77	B/60	
16-1256	Egypt, Alexandria	M7	30:26 N; 29:47 E	20	118:25	71	225	V	77	B/60	
16-1257	Egypt, Nile Delta	M7	30:55 N; 30:20 E	20	118:25	71	225	V	76	B/60	
16-1258	Egypt, Nile Delta	M7	31:25 N; 30:50 E	20	118:25	71	225	V	76	B/60	
16-1259	Egypt, Nile Delta	M7	31:50 N; 31:20 E	20	118:25	71	225	V	75	B/60	
16-1260	Egypt, Nile Delta	M7	32:18 N; 31:55 E	20	118:25	71	225	V	74	B/60	
16-1262	Mediterranean Sea	M7	33:15 N; 33:00 E	20	118:26	71	226	V	73	B/60	
16-1263	Mediterranean Sea	M7	33:45 N; 33:30 E	20	118:26	71	226	V	73	B/60	
16-1264	Cyprus	M7	34:10 N; 34:05 E	20	118:26	71	226	V	73	B/60	
16-1265	Cyprus	M7	34:35 N; 34:30 E	20	118:26	71	226	V	73	B/60	
16-1266	Syria, Levantine Rift	M7	35:00 N; 35:05 E	20	118:26	71	226	V	70	B/60	
16-1267	Syria, Levantine Rift	M7	35:30 N; 35:50 E	20	118:26	71	226	V	70	B/60	
16-1268	Syria, Levantine Rift	M7	36:00 N; 36:30 E	20	118:27		226	V	70	B/60	5% clouds
16-1269	Syria, Levantine Rift	M7	36:20 N; 37:00 E	20	118:27	71	226	V		B/60	10% clouds
16-1270	Syria/Turkey	M7	36:40 N; 37:35 E	20	118:27	71	226	V	65	B/60	20% clouds
16-1271	Turkey, Euphrates River	M7	37:10 N; 38:15 E	20	118:27	71	226	V	65	B/60	25% clouds
16-1272	Turkey, Euphrates River	M7	37:35 N; 38:50 E	20	118:27	71	226	V	65	B/60	35% clouds
*16-1273	Turkey, Euphrates River	M7	37:50 N; 39:20 E	20	118:27	71	226	V	60	B/60	40% clouds
17-1274	Atlantic	M9	4:32 N; 14:26 W	20	119:45	72	222	V	68	B/100	10% clouds
17-1275	Atlantic	M9	4:52 N; 14:14 W	20	119:45	72	222	V	68	B/100	20% clouds
17-1276	Atlantic	M9	5:18 N; 14:00 W	20	119:45	72	222	V	69	B/100	20% clouds
17-1277	Atlantic	M9	5:30 N; 13:48 W	20	119:45	72	222	V	69	B/100	25% clouds
17-1278	Atlantic	M9	5:47 N; 13:35 W	20	119:45	72	222	V	70	B/100	30% clouds
17-1279	Atlantic	M9	6:00 N; 13:22 W	20	119:45	72	222	V	70	B/100	30% clouds
17-1280	Atlantic	M9	6:24 N; 13:08 W	20	119:45	72	222	V	70	B/100	40% clouds
17-1281	Atlantic	M9	6:43 N; 12:55 W	20	119:45	72	222	V	71	B/100	60% clouds
17-1282	Atlantic	M9	7:00 N; 12:42 W	20	119:45	72	222	V	71	B/100	60% clouds
17-1283	Atlantic	M9	7:19 N; 12:28 W	20	119:46	72	222	V	72	B/100	80% clouds
*17-1284	Sierra Leone	M9	7:38 N; 12:15 W	20	119:46	72	222	V	72	B/100	90% clouds
*17-1285	Sierra Leone	M9	7:57 N; 12:01 W	20	119:46	72	222	V	72	B/100	100% clouds
*17-1286	Sierra Leone	M9	8:16 N; 11:48 W	20	119:46	72	222	V	73	B/100	100% clouds
*17-1287	Sierra Leone	M9	8:35 N; 11:34 W	20	119:46	72	222	V	73	B/100	100% clouds
*17-1288	Sierra Leone	M9	8:54 N; 11:20 W	20	119:46	72	222	V	74	B/100	100% clouds
*17-1289	Sierra Leone	M9	9:12 N; 11:07 W	20	119:46	72	222	V	74	B/100	100% clouds
*17-1290	Guinea	M9	9:31 N; 10:53 W	20	119:46	72	222	V	74	B/100	100% clouds
*17-1291	Guinea	M9	9:50 N; 10:39 W	20	119:46	72	222	V	75	B/100	100% clouds
*17-1292	Guinea	M9	10:09 N; 10:25 W	20	119:46	72	222	V	75	B/100	100% clouds
*17-1293	Guinea	M9	10:28 N; 10:12 W	20	119:47	72	222	V	76	B/100	100% clouds
*17-1294	Mali, Niger River	M9	10:46 N; 9:58 W	20	119:47	72	222	V	76	B/100	80% clouds
17-1295	Mali	M9	11:00 N; 9:44 W	20	119:47	72	222	V	76	B/100	80% clouds
17-1296	Mali, Niger River	M9	11:26 N; 9:30 W	20	119:47	72	222	V	77	B/100	70% clouds
17-1297	Mali, Niger River	M9	11:45 N; 9:15 W	20	119:47	72	222	V	77	B/100	60% clouds
17-1298	Mali, Niger River	M9	12:00 N; 9:00 W	20	119:47	72	222	V	78	B/100	60% clouds
17-1299	Mali	M9	12:24 N; 8:46 W	20	119:47	72	222	V	78	B/100	60% clouds
17-1300	Mali	M9	12:44 N; 8:32 W	20	119:47	72	222	V	78	B/100	60% clouds
17-1301	Mali	M9	13:00 N; 8:11 W	20	119:47	72	222	V	79	B/100	70% clouds

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
17-1302	Mali	M9	13:20 N; 8:00 W	20	119:48	72	222	V	79	B/100	75% clouds
17-1303	Mali	M9	13:43 N; 7:43 W	20	119:48	72	222	V	80	B/100	75% clouds
17-1304	Mali	M9	14:00 N; 7:32 W	20	119:48	72	222	V	80	B/100	60% clouds
17-1305	Mali	M9	14:22 N; 7:16 W	20	119:48	72	222	V	81	B/100	30% clouds
17-1306	Mali	M9	14:41 N; 7:00 W	20	119:48	72	222	V	81	B/100	15% clouds
17-1307	Mali	M9	15:00 N; 6:46 W	20	119:48	72	222	V	81	B/100	5% clouds
17-1308	Mali	M9	15:20 N; 6:31 W	20	119:48	72	222	V	82	B/100	
17-1309	Mali	M9	15:40 N; 6:15 W	20	119:48	72	222	V	82	B/100	
17-1310	Mali, Algerian Desert	M9	16:00 N; 6:00 W	20	119:48	72	222	V	83	B/100	
17-1311	Mali, Algerian Desert	M9	16:19 N; 5:44 W	20	119:48	72	222	V	83	B/100	Overexposed
17-1312	Mali, Algerian Desert	M9	16:38 N; 5:29 W	20	119:49	72	222	V	84	B/100	Overexposed
17-1313	Mali, Algerian Desert	M9	16:58 N; 5:13 W	20	119:49	72	222	V	84	B/100	Overexposed
17-1314	Mali, Algerian Desert	M9	17:17 N; 5:00 W	20	119:49	72	222	V	84	B/100	Overexposed
17-1315	Mali, Algerian Desert	M9	17:37 N; 4:41 W	20	119:49	72	222	V	85	B/100	Overexposed
17-1316	Mali, Algerian Desert	M9	17:56 N; 4:26 W	20	119:49	72	222	V	85	B/100	Overexposed
17-1317	Mali, Algerian Desert	M9	18:16 N; 4:10 W	20	119:49	72	222	V	86	B/100	Overexposed
17-1318	Mali, Algerian Desert	M9	18:35 N; 3:54 W	20	119:49	72	222	V	86	B/100	Overexposed
17-1319	Mali, Algerian Desert	M9	18:54 N; 3:38 W	20	119:49	72	222	V	86	B/100	Overexposed
17-1320	Mali, Algerian Desert	M9	19:15 N; 3:22 W	20	119:49	72	222	V	87	B/100	Overexposed
17-1321	Mali, Algerian Desert	M9	19:32 N; 3:06 W	20	119:50	72	223	V	87	B/100	Overexposed
17-1322	Mali, Algerian Desert	M9	19:52 N; 2:50 W	20	119:50	72	223	V	88	B/100	Overexposed
17-1323	Mali, Algerian Desert	M9	20:11 N; 2:34 W	20	119:50	72	223	V	88	B/100	Overexposed
17-1324	Mali, Algerian Desert	M9	20:31 N; 2:18 W	20	119:50	72	223	V	88	B/100	Overexposed
17-1325	Mali, Algerian Desert	M9	20:50 N; 2:00 W	20	119:50	72	223	V	89	B/100	Overexposed
17-1326	Mali, Algerian Desert	M9	21:10 N; 1:46 W	20	119:50	72	223	V	89	B/100	Overexposed
17-1327	Mali, Algerian Desert	M9	21:29 N; 1:29 W	20	119:50	72	223	V	89	B/100	Overexposed
17-1328	Mali, Algerian Desert	M9	21:47 N; 1:13 W	20	119:50	72	223	V	89	B/100	Overexposed
17-1329	Mali, Algerian Desert	M9	22:07 N; 0:56 W	20	119:50	72	223	V	89	B/100	Overexposed
17-1330	Mali, Algerian Desert	M9	22:26 N; 0:39 W	20	119:50	72	223	V	88	B/100	Overexposed
17-1331	Algeria, Algerian Desert	M9	22:44 N; 0:22 W	20	119:51	72	223	V	87	B/100	Overexposed
17-1332	Algeria, Algerian Desert	M9	23:00 N; 0:05 W	20	119:51	72	223	V	87	B/100	Overexposed
17-1333	Algeria, Algerian Desert	M9	23:22 N; 0:11 E	20	119:51	72	223	V	87	B/100	Overexposed
17-1334	Algeria, Algerian Desert	M9	23:41 N; 0:28 E	20	119:51	72	223	V	86	B/100	Overexposed
17-1335	Algeria, Algerian Desert	M9	24:00 N; 0:46 E	20	119:51	72	223	V	86	B/100	Overexposed

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
17-1336	Algeria, Algerian Desert	M9	24:19 N; 1:00 E	20	119:51	72	223	V	85	B/100	Overexposed
17-1337	Algeria, Algerian Desert	M9	24:37 N; 1:20 E	20	119:51	72	223	V	85	B/100	
17-1338	Algeria, Algerian Desert	M9	24:56 N; 1:38 E	20	119:51	72	223	V	85	B/100	
17-1339	Algeria, Algerian Desert	M9	25:14 N; 1:55 E	20	119:51	72	223	V	84	B/100	
17-1340	Algeria, Algerian Desert	M9	25:33 N; 2:13 E	20	119:52	72	224	V	84	B/100	
17-1341	Algeria, Algerian Desert	M9	25:52 N; 2:31 E	20	119:52	72	224	V	83	B/100	
17-1342	Algeria, Algerian Desert	M9	26:10 N; 2:49 E	20	119:52	72	224	V	83	B/100	
17-1343	Algeria, Algerian Desert	M9	26:28 N; 3:06 E	20	119:52	72	224	V	82	B/100	
17-1344	Algeria, Algerian Desert	M9	26:46 N; 3:25 E	20	119:52	72	224	V	82	B/100	
17-1345	Algeria, Algerian Desert	M9	27:00 N; 3:43 E	20	119:52	72	224	V	82	B/100	
17-1346	Algeria, Algerian Desert	M9	27:23 N; 4:00 E	20	119:52	72	224	V	81	B/100	Overexposed
17-1347	Algeria, Algerian Desert	M9	27:41 N; 4:19 E	20	119:52	72	224	V	81	B/100	Overexposed
17-1348	Algeria, Algerian Desert	M9	27:59 N; 4:38 E	20	119:52	72	224	V	80	B/100	Overexposed
17-1349	Algeria, Grand Erg Oriental	M9	28:17 N; 4:56 E	20	119:52	72	224	V	80	B/100	Overexposed
*17-1350	Algeria, Grand Erg Oriental	M9	28:35 N; 5:15 E	20	119:52	72	224	V	79	B/100	Overexposed
*17-1351	Algeria, Grand Erg Oriental	M9	28:53 N; 5:34 E	20	119:53	72	224	V	79	B/100	Overexposed
*17-1352	Algeria, Grand Erg Oriental	M9	29:11 N; 5:52 E	20	119:53	72	224	V	79	B/100	Overexposed
*17-1353	Algeria, Grand Erg Oriental	M9	29:29 N; 6:08 E	20	119:53	72	224	V	78	B/100	Overexposed
*17-1354	Algeria, Grand Erg Oriental	M9	29:47 N; 6:30 E	20	119:53	72	224	V	78	B/100	Overexposed
*17-1355	Algeria, Grand Erg Oriental	M9	30:06 N; 6:49 E	20	119:53	72	224	V	77	B/100	Overexposed
*17-1356	Algeria, Grand Erg Oriental	M9	30:23 N; 7:08 E	20	119:53	72	224	V	77	B/100	Overexposed
*17-1357	Algeria, Grand Erg Oriental	M9	30:41 N; 7:27 E	20	119:53	72	224	V	76	B/100	Overexposed
*17-1358	Algeria, Grand Erg Oriental	M9	30:59 N; 7:47 E	20	119:53	72	224	V	76	B/100	Overexposed
*17-1359	Algeria, Grand Erg Oriental	M9	31:17 N; 8:07 E	20	119:53	72	224	V	76	B/100	Overexposed
*17-1360	Algeria, Grand Erg Oriental	M9	31:35 N; 8:27 E	20	119:54	72	225	V	75	B/100	Overexposed
*17-1361	Algeria, Grand Erg Oriental	M9	31:53 N; 8:47 E	20	119:54	72	225	V	75	B/100	Overexposed
*17-1362	Algeria, Grand Erg Oriental	M9	32:10 N; 9:09 E	20	119:54	72	225	V	75	B/100	Overexposed
*17-1363	Tunisia/Grand Erg Oriental	M9	32:28 N; 9:29 E	20	119:54	72	225	V	75	B/100	Overexposed
*17-1364	Tunisia/Grand Erg Oriental	M9	32:46 N; 9:50 E	20	119:54	72	225	V	75	B/100	Overexposed
*17-1365	Tunisia	M9	33:03 N; 10:11 E	20	119:54	72	225	V	75	B/100	Overexposed

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17-1366	Tunisia, Djerba Is.	M9	33:17 N; 10:30 E	20	119:54	72	225	V	73	B/100	
17-1367	Tunisia, Djerba Is.	M9	33:35 N; 10:51 E	20	119:54	72	225	V	73	B/100	
17-1368	Tunisia, Djerba Is.	M9	33:52 N; 11:12 E	20	119:54	72	225	V	73	B/100	
17-1369	Mediterranean Sea, Djerba Is.	M9	34:09 N; 11:33 E	20	119:54	72	225	V	73	B/100	
17-1370	Mediterranean Sea	M9	34:26 N; 11:55 E	20	119:55	72	226	V	73	B/100	
17-1371	Mediterranean Sea	M9	34:42 N; 12:08 E	20	119:55	72	226	V	70	B/100	
17-1372	Lampedusa Is.	M9	34:59 N; 12:38 E	20	119:55	72	226	V	70	B/100	
17-1373	Lampedusa Is.	M9	35:15 N; 12:59 E	20	119:55	72	226	V	69	B/100	
17-1374	Lampedusa Is.	M9	35:33 N; 13:22 E	20	119:55	72	226	V	68	B/100	
17-1375	Mediterranean Sea	M9	35:48 N; 13:43 E	20	119:55	72	226	V	68	B/100	
17-1376	Mediterranean Sea, Malta	M9	36:05 N; 14:06 E	20	119:55	72	226	V	67	B/100	
17-1377	Italy, Sicily/ Malta	M9	36:21 N; 14:28 E	20	119:55	72	226	V	67	B/100	
17-1378	Italy, Sicily	M9	36:38 N; 14:50 E	20	119:55	72	226	V	66	B/100	
17-1379	Sicily	M9	36:54 N; 15:12 E	20	119:56	72	226	V	66	B/100	
19-1536	U.S., Olympic Mts.	4B	48:35 N; 122:55 W	23	201:10	123	226	NV	61	S/50	10% clouds
19-1537	U.S., Puget Sound	4B	48:25 N; 123:00 W	23	201:10	123	226	NV	61	S/50	10% clouds
19-1538	U.S., Puget Sound	4B	48:33 N; 122:30 W	23	201:10	123	226	NV	61	S/50	15% clouds
19-1539	U.S., Cascade Mts.	4B	48:33 N; 122:20 W	23	201:10	123	226	NV	61	S/50	15% clouds
19-1540	U.S., Columbia River		48:45 N; 121:40 W	23	201:10	123	226	NV	60	S/50	15% clouds
19-1541	U.S./Okanagan Lake		49:10 N; 120:35 W	23	201:10	123	226	NV	58	S/50	15% clouds
19-1542	U.S./Okanagan Lake		49:05 N; 120:20 W	23	201:10	123	226	NV	58	S/50	10% clouds
19-1543	U.S./Okanagan Lake		49:15 N; 119:45 W	23	201:10	123	226	NV	58	S/50	5% clouds
19-1544	Australia, Halfmoon Lake		29:15 S; 133:00 E	23	202:24	124	233	NV	9	S/50	Partial frame
19-1545	Australia, Wilkinson Lake		29:05 S; 133:15 E	23	202:24	124	233	NV	10	S/50	Partial frame
19-1546	Australia, Victoria Desert		28:30 S; 133:40 E	23	202:24	124	233	NV	10	S/50	Partial frame
19-1547	Australia, Simpson Desert	11C	26:45 S; 136:37 E	23	202:25	124	232	NV	13	S/50	Partial frame
19-1548	Australia, Simpson Desert	11C	26:40 S; 137:05 E	23	202:25	124	232	NV	13	S/50	Partial frame
19-1549	Australia, Simpson Desert	11C	26:25 S; 137:20 E	23	202:25	124	232	NV	13	S/50	Partial frame
19-1550	Australia, Simpson Desert	11C		23	202:26	124	232	NV	15	S/50	
19-1551	Australia, Great Barrier Reef	11B	16:40 S; 145:20 E	23	202:28	124	229	NV	25	S/50	40% clouds
19-1552	Australia, Great Barrier Reef	11B	15:40 S; 145:10 E	23	202:28	124	229	NV	25	S/50	40% clouds
19-1553	Australia, Great Barrier Reef	11B	15:30 S; 145:20 E	23	202:28	124	229	NV	27	S/50	50% clouds
19-1554	Australia, Great Barrier Reef	11B	15:10 S; 145:30 E	23	202:28	124	229	NV	28	S/50	50% clouds
19-1555	Solomon Is., Buka Is.		5:45 S; 154:30 E	23	202:32	124	225	LO	42	S/50	30% clouds
19-1556	Solomon Is., Buka Is.		5:50 S; 153:40 E	23	202:32	124	225	NV	42	S/50	Underexposed
†19-1559	Cloud features	3A		23		124	225	NV		S/50	
†19-1560	Cloud features	3A		23		124	225	NV		S/50	
†19-1561	Cloud features	3A		23		124	225	NV		S/50	
†19-1562	Cloud features	3A		23		124	225	NV		S/50	
19-1565	Pacific, Midway Is.		28:20 N; 177:30 W	23		124	225	NV	87	S/50	20% clouds
†19-1566	Pacific (clouds)	3A		23		124	225	NV		S/50	

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†19-1567	Pacific (clouds)	3A		23		124	226	NV		S/50	
19-1568	Canada, British Columbia		50:55 N; 124:00 W	23	202:55	124	226	NV	46	S/50	70% clouds
19-1569	Canada, British Columbia		51:00 N; 123:50 W	23	202:55	124	226	NV	46	S/50	70% clouds
19-1570	Canada, Alberta		52:05 N; 117:30 W	23	202:56	124	226	LO	42	S/50	20% clouds
19-1571	Canada, Alberta		52:10 N; 117:20 W	23	202:56	124	226	LO	42	S/50	20% clouds
*19-1572	U.S., Long Island		40:40 N; 73:40 W	23		125		LO	9	S/50	Hazy
†19-1573	Atlantic (clouds)	3A		23		125		NV		S/50	
†19-1574	Atlantic (clouds)	3A		23		125		NV		S/50	
19-1575	Venezuela/Trinidad	7G	10:10 N; 62:50 W	24	217:24	134	218	LO	64	S/50	Hazy
19-1576	Caribbean, Barbados Is.	7G	13:10 N; 60:20 W	24	217:25	134	219	LO	67	S/50	15% clouds
19-1577	Galapagos Is.	7F	1:00 S; 91:50 W	24	218:49	134	217	NV	43	S/50	70% clouds
19-1578	Galapagos Is.	7F	0:50 S; 90:20 W	24	218:49	134	217	NV	44	S/50	70% clouds
19-1579	Galapagos Is.	7F	0:50 S; 91:05 W	24	218:49	134	217	NV	45	S/50	70% clouds
19-1580	Galapagos Is.	7F	0:00 ; 90:50 W	24	218:49	134	217	NV	45	S/50	50% clouds
19-1581	Galapagos Is.	7F	0:20 S; 90:30 W	24	218:49	134	217	NV	45	S/50	50% clouds
19-1582	Galapagos Is.	7F	0:10 N; 91:10 W	24	218:50	134	217	NV	45	S/50	70% clouds
19-1583	Costa Rica, Puerto Quepos		8:20 N; 84:30 W	24	218:52	134	218	LO	55	S/50	70% clouds
19-1584	Costa Rica, Puerto Cortés		9:10 N; 84:40 W	24	218:52	134	218	LO	56	S/50	70% clouds
19-1585	Costa Rica, Limón		9:50 N; 83:30 W	24	218:53	134	218	NV	57	S/50	70% clouds
19-1586	Costa Rica, San Juan River		10:20 N; 83:20 W	24	218:53	134	218	LO	58	S/50	Hazy
19-1587	Costa Rica/Nicaragua		11:10 N; 82:30 W	24	218:53	134	218	LO	59	S/50	Hazy
19-1588	Caribbean Sea	7G	14:15 N; 80:20 W	24	218:54	134	219	NV	63	S/50	10% clouds
19-1589	Caribbean Sea	7G	14:00 N; 80:30 W	24	218:54	134	219	LO	63	S/50	20% clouds
19-1590	Caribbean Sea	7G	13:30 N; 79:00 W	24	218:54	134	219	LO	63	S/50	20% clouds
19-1591	Caribbean, Jamaica	7G	17:50 N; 77:10 W	24	218:55	135	220	LO	69	S/50	15% clouds
19-1592	Caribbean, Jamaica	7G	17:55 N; 77:30 W	24	218:55	135	220	LO	68	S/50	20% clouds
19-1593	Cuba	7G	19:10 N; 75:40 W	24	218:55	135	220	LO	70	S/50	10% clouds
19-1594	Bahamas	7G	22:25 N; 74:20 W	24	218:55	135	220	LO	74	S/50	15% clouds
†19-1596	Bermuda area			24		135	223	LO		S/50	100% clouds
†19-1597	Bermuda area			24		135	223	LO		S/50	60% clouds
19-1598	Bermuda area		32:15 N; 65:00 W	24	219:00	135	223	NV	86	S/50	10% clouds
†19-1599	Bermuda area			24		135	223	LO		S/50	50% clouds
20-1600	Pacific	M10	34:00 N; 127:00 W	22	176:07	107	227	V	75	S/50	50% clouds
20-1601	Pacific	M10	34:19 N; 126:37 W	22	176:08	107	227	V	75	S/50	90% clouds
20-1602	Pacific	M10	34:46 N; 126:00 W	22	176:08	107	227	V	75	S/50	90% clouds
20-1603	Pacific	M10	35:13 N; 125:28 W	22	176:08	107	227	V	75	S/50	70% clouds
20-1604	Pacific	M10	35:40 N; 124:53 W	22	176:08	107	227	V	74	S/50	50% clouds
20-1605	Pacific	M10	36:06 N; 124:18 W	22	176:08	107	227	V	74	S/50	50% clouds
20-1606	Pacific	M10	36:32 N; 123:43 W	22	176:08	107	227	V	73	S/50	40% clouds
20-1607	U.S., Pt. Reyes, Calif.	M10	36:58 N; 123:06 W	22	176:08	107	227	V	73	S/50	40% clouds
20-1608	U.S., Pt. Reyes, Calif.	M10	37:24 N; 122:29 W	22	176:09	107	228	V	72	S/50	25% clouds
20-1609	U.S., Pt. Reyes, Calif.	M10	37:49 N; 121:52 W	22	176:09	107	228	V	72	S/50	5% clouds
20-1610	U.S., Sierra Nevada	M10	38:14 N; 121:14 W	22	176:09	107	228	V	71	S/50	
20-1611	U.S., Lake Tahoe	M10	38:38 N; 120:36 W	22	176:09	107	228	V	71	S/50	
20-1612	U.S., Lake Tahoe	M10	39:00 N; 119:57 W	22	176:09	107	228	V	70	S/50	
20-1613	U.S., Lake Tahoe	M10	39:27 N; 119:18 W	22	176:10	107	229	V	69	S/50	5% clouds
20-1614	U.S., Pyramid Lake	M10	39:51 N; 118:38 W	22	176:10	107	229	V	69	S/50	10% clouds
20-1615	U.S., Humboldt River	M10	40:15 N; 117:58 W	22	176:10	107	229	V	68	S/50	15% clouds
20-1616	U.S., Humboldt River	M10	40:38 N; 117:18 W	22	176:10	107	229	V	68	S/50	20% clouds

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20-1617	U.S., Humboldt River	M10	41:00 N; 116:37 W	22	176:10	107	229	V	67	S/50	25% clouds
20-1618	U.S., W. Fork River	M10	41:08 N; 115:55 W	22	176:10	107	229	V	67	S/50	30% clouds
20-1619	U.S., Snake River	M10	41:47 N; 115:13 W	22	176:11	107	229	V	66	S/50	30% clouds
20-1620	U.S., Snake River	M10	42:10 N; 114:31 W	22	176:11	107	229	V	66	S/50	25% clouds
20-1621	U.S., American Falls	M10	42:32 N; 113:47 W	22	176:11	107	229	V	65	S/50	15% clouds
20-1622	U.S., American Falls	M10	42:54 N; 113:00 W	22	176:11	107	229	V	65	S/50	15% clouds
20-1623	U.S., American Falls	M10	43:16 N; 112:20 W	22	176:11	107	229	V	65	S/50	15% clouds
20-1624	U.S., American Falls	M10	43:37 N; 111:35 W	22	176:11	107	229	V	64	S/50	20% clouds
20-1625	U.S., Teton Range	M10	43:55 N; 111:00 W	22	176:12	107	229	V	64	S/50	25% clouds
20-1626	U.S., Teton Range	M10	44:20 N; 110:10 W	22	176:12	107	229	V	63	S/50	50% clouds
20-1627	U.S., Bighorn River	M10	44:40 N; 109:20 W	22	176:12	107	229	V	63	S/50	50% clouds
20-1628	U.S., Bighorn River	M10	45:00 N; 108:35 W	22	176:12	107	229	V	62	S/50	50% clouds
20-1629	U.S., Yellowstone River	M10	45:25 N; 107:40 W	22	176:13	107	230	V	61	S/50	20% clouds
20-1630	U.S., Yellowstone River	M10	45:40 N; 107:00 W	22	176:13	107	230	V	61	S/50	20% clouds
20-1631	U.S., Powder River	M10	45:50 N; 106:20 W	22	176:13	107	230	V	60	S/50	15% clouds
20-1632	U.S., Powder River	M10	46:20 N; 105:25 W	22	176:13	107	230	V	60	S/50	10% clouds
120-1633	Canada, Ontario			22		107	230	LO		S/50	85% clouds
120-1634	Canada, Ontario			22		107	230	LO		S/50	75% clouds
20-1635	Canada/U.S., Lake Ontario		44: ? N; 78: ? W	22		108	230	HO		S/50	80% clouds
120-1636	Gulf of St. Lawrence, Anticosti Is.			22		108	230	HO		S/50	Blurred
20-1637	Gulf of St. Lawrence			22		108	230	HO		S/50	70% clouds
20-1638	Gulf of St. Lawrence			22		108	230	HO		S/50	70% clouds
120-1639	New Foundland			22		108	230	HO		S/50	85% clouds
120-1640	Cloud features	3A		22		108	230	HO		S/50	
20-1641	England, Weymouth		51:10 N; 3:20 W	23	197:05	120	225	HO	25	S/50	50% clouds
20-1642	England, Weymouth		51: ? N; 1: ? W	23	197:05	120	225	HO	23	S/50	50% clouds
20-1643	English Channel			23	197:05	120	225	HO	23	S/50	70% clouds
20-1644	France			23		120	225	HO		S/50	70% clouds
20-1645	France			23		120	225	HO		S/50	Hazy
20-1646	Switzerland, Lake Geneva		46:50 N; 06:25 E	23	197:07	120	223	LO	16	S/50	Hazy
20-1647	Italy, mouth of Po River		44:50 N; 11:50 E	23	197:08	120	222	HO	12	S/50	Hazy
120-1648	Cloud features	3A		23		123	221	HO		S/50	Partial frame
120-1649	Cloud features	3A		23		123	221	HO		S/50	Partial frame
120-1650	Cloud features	3A		23		123	221	HO		S/50	Partial frame
120-1651	Cloud features	3A		23		123	221	HO		S/50	Partial frame
20-1652	U.S., Calif.	2C		23		123	221	HO		S/50	Partial frame
20-1653	U.S., Calif.	2C		23		123	221	HO		S/50	
20-1654	U.S., S.W.			23		123	221	HO		S/50	
120-1655	Cloud features	3A		23		123	221	HO		S/50	
120-1656	Cloud features	3A		23		123	221	HO		S/50	
120-1657	Cloud features	3A		23		123	221	HO		S/50	
120-1658	Cloud features	3A		23		123	221	HO		S/50	
120-1659	Cloud features	3A		23		123	221	HO		S/50	
120-1660	Cloud features	3A		23		123	221	HO		S/50	

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20-1661	New Caledonia		21:25 S; 164:20 E	23	201:18	123	221	NV	21	S/50	25% clouds
†20-1662	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1663	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1664	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1665	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1666	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1667	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1668	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1669	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1670	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1671	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1672	Cloud features	3A		23		123	221	LO		S/50	Partial frame
†20-1673	Cloud features	3A		23		123	221	LO		S/50	Partial frame
21-1674	Peru, Acari River	7B	14:45 S; 76:20 W	22	169:57	104	219	LO	38	S/50	Partial frame
21-1675	Peru, Nazca	7B	14:30 S; 76:00 W	22	169:57	104	219	LO	38	S/50	Partial frame
21-1676	Peru, Nazca	7B	15:25 S; 75:30 W	22	169:57	104	219	LO	37	S/50	Partial frame
21-1677	Peru, Nazca	7B	15:00 S; 75:20 W	22	169:57	104	219	LO	36	S/50	50% clouds
21-1678	Peru, Nazca	7B	14:00 S; 75:50 W	22	169:58	104	218	NV	37	S/50	20% clouds
*21-1679	Peru, Amazon River		10:50 S; 73:05 W	22	169:59	104	218	LO	42	S/50	20% clouds
21-1680	Brazil, Juruá River		7:15 S; 70:30 W	22	169:59	104	218	LO	49	S/50	
21-1681	Peru, Amazon River		4:20 S; 69:50 W	22	169:59	104	218	LO	50	S/50	10% clouds
21-1682	Brazil, Amazon River		2:45 S; 66:30 W	22	170:02	104	218	LO	55	S/50	
21-1683	Venezuela, Orinoco River	7E	8:05 N; 60:20 W	22	170:04	104	219	LO	69	S/50	25% clouds
21-1684	Venezuela, Orinoco River	7E	8:10 N; 59:45 W	22	170:04	104	219	LO	69	S/50	20% clouds
21-1685	Venezuela, Orinoco River	7E	9:20 N; 60:15 W	22	170:04	104	219	LO	70	S/50	30% clouds
21-1686	Barbados Is.	7E	13:10 N; 59:35 W	22	170:04	104	219	HO	75	S/50	25% clouds
21-1687	Barbados Is.	7E	13:25 N; 59:35 W	22	170:04	104	219	HO	75	S/50	25% clouds
21-1688	Barbados Is.	7E	13:55 N; 59:40 W	22	170:05	104	219	HO	78	S/50	25% clouds
21-1689	Mexico, Tampico		22:20 N; 97:20 W	22	173:08	105	223	HO	79	S/50	30% clouds
21-1690	Mexico, Rio Grande		24:20 N; 97:10 W	22	173:08	105	223	HO	79	S/50	20% clouds
21-1691	U.S., Gulf of Mexico			22	173:09	105	223	HO		S/50	Partial frame
21-1692	U.S., Pensacola		30:50 N; 87:10 W	22	173:09	105	223	LO	90	S/50	50% clouds
21-1693	U.S., Pensacola		30:50 N; 86:00 W	22	173:09	105	223	LO	89	S/50	50% clouds
21-1694	U.S., Long Island		40:10 N; 74:20 W	22	173:18	106	226	LO	75	S/50	30% clouds
21-1695	U.S., Delaware Bay		39:30 N; 74:40 W	22	173:18	106	226	LO	75	S/50	20% clouds
21-1696	U.S., northeast			22	173:18	106	226	HO		S/50	Partial frame
21-1697	U.S., northeast			22	173:18	106	226	HO		S/50	Partial frame
21-1698	U.S., Long Island		40:45 N; 74:00 W	22	173:18	106	226	HO	75	S/50	60% clouds
21-1699	U.S., Long Island		40:45 N; 74:00 W	22	173:18	106	226	HO	75	S/50	60% clouds
21-1700	U.S./Canada			22	173:19	106	226	LO		S/50	70% clouds
21-1701	Canada, Nova Scotia	5C	45:40 N; 66:10 W	22	173:20	106	227	LO	67	S/50	60% clouds
21-1702	Canada, Nova Scotia	5C	45:55 N; 65:50 W	22	173:20	106	227	LO	67	S/50	70% clouds
21-1703	Canada, Prince Edward Is.	5C	45:40 N; 65:00 W	22	173:20	106	227	HO	66	S/50	60% clouds
21-1704	Canada, Prince Edward Is.	5C	45:50 N; 64:20 W	22	173:20	106	227	HO	65	S/50	50% clouds
21-1705	Canada, Prince Edward Is.	5C	46:10 N; 63:25 W	22	173:20	106	227	HO	64	S/50	50% clouds
*21-1719	U.S., Rio Grande		32:10 N; 106:45 W	22	174:24	106	226	NV	83	S/50	Partial frame
*21-1720	U.S., New Mexico		33:20 N; 105:10 W	22	174:24	106	226	NV	83	S/50	Partial frame

<i>Photo no., AST-</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
21-1721	U.S., New Mexico		33:35 N; 104:40 W	22	174:24	106	226	NV	82	S/50	Partial frame
21-1722	U.S., New Mexico		34:00 N; 104:10 W	22	174:24	106	226	NV	81	S/50	Partial frame
21-1723	U.S., Green Bay		44:15 N; 89:20 W	22	174:29	106	226	LO	66	S/50	Hazy
21-1724	Canada, Ontario		46:15 N; 81:40 W	22	174:45	107	229	LO	60	S/50	70% clouds
*21-1725	Atlantic (clouds)	3A		22		107	229	LO		S/50	
21-1726	Australia, Lake Eyre	11A	28:05 S; 137:30 E	22	178:49	109	220	LO	17	S/50	
21-1727	Australia, Lake Eyre	11A	28:30 S; 137:40 E	22	178:49	109	220	LO	17	S/50	
21-1728	Thailand coast		12:10 N; 100:50 E	22	183:24	112		HO	66	S/50	30% clouds
21-1729	Cambodia		12:10 N; 100:50 E	22	183:24	112		HO	66	S/50	30% clouds
21-1730	China, Tonkin Gulf		19: ? N; 112: ? E	22	183:26	112		HO	77	S/50	70% clouds
21-1731	China, Tonkin Gulf		19: ? N; 116: ? E	22	183:26	112		HO	78	S/50	60% clouds
21-1732	China, Tonkin Gulf		20: ? N; 114: ? E	22	183:27	112		HO	79	S/50	60% clouds
21-1733	China, Tonkin Gulf		21: ? N; 114: ? E	22	183:27	112		HO	79	S/50	60% clouds
21-1734	Southern China			22		112		HO		S/50	40% clouds
21-1735	Southern China			22		112		HO		S/50	40% clouds
21-1736	China			22		112		HO		S/50	40% clouds
21-1737	China, Yangtze River			22		112		HO	86	S/50	20% clouds
21-1738	China, Yangtze River			22		112		HO		S/50	10% clouds
21-1739	Eastern China Sea			22		112		HO		S/50	30% clouds
*22-1744	Clouds	M2	49:20 S; 154:20 E	16	33:37	17	188	V	4	B/60	Underexposed
22-1745	Tasman Sea	M2	49:00 S; 155:00 E	16	33:37	17	188	V	4	B/60	90% clouds
22-1746	Tasman Sea	M2	48:40 S; 155:40 E	16	33:37	17	188	V	5	B/60	70% clouds
22-1747	Tasman Sea	M2	48:30 S; 156:20 E	16	33:37	17	188	V	5	B/60	50% clouds
22-1748	Tasman Sea	M2	48:20 S; 157:00 E	16	33:37	17	188	V	6	B/60	50% clouds
22-1749	Tasman Sea	M2	47:50 S; 158:00 E	16	33:37	17	188	V	6	B/60	60% clouds
22-1750	Tasman Sea	M2	47:40 S; 158:40 E	16	33:37	17	188	V	7	B/60	60% clouds
22-1751	Tasman Sea	M2	47:30 S; 159:10 E	16	33:37	17	188	V	7	B/60	50% clouds
22-1752	Tasman Sea	M2	47:00 S; 160:10 E	16	33:38	17	188	V	8	B/60	50% clouds
22-1753	Tasman Sea	M2	46:40 S; 160:30 E	16	33:38	17	188	V	8	B/60	60% clouds
22-1754	Tasman Sea	M2	46:10 S; 162:10 E	16	33:38	17	188	V	9	B/60	70% clouds
22-1755	Tasman Sea	M2	45:50 S; 162:40 E	16	33:38	17	188	V	9	B/60	50% clouds
22-1756	Tasman Sea	M2	45:30 S; 163:30 E	16	33:38	17	188	V	10	B/60	50% clouds
22-1757	Tasman Sea	M2	45:26 S; 164:00 E	16	33:39	17	188	V	10	B/60	50% clouds
22-1758	Tasman Sea	M2	45:07 S; 164:44 E	16	33:39	17	184	V	11	B/60	50% clouds
22-1759	Tasman Sea	M2	44:46 S; 165:31 E	16	33:39	17	184	V	11	B/60	40% clouds
22-1760	Tasman Sea	M2	44:25 S; 166:19 E	16	33:39	17	184	V	12	B/60	30% clouds
22-1761	New Zealand, S. Is.	M2	44:00 S; 167:00 E	16	33:39	17	184	V	13	B/60	15% clouds
22-1762	New Zealand, S. Is.	M2	43:43 S; 167:51 E	16	33:39	17	184	V	13	B/60	15% clouds
22-1763	New Zealand, S. Is.	M2	43:21 S; 168:37 E	16	33:39	17	184	V	14	B/60	30% clouds
22-1764	New Zealand, S. Is.	M2	42:59 S; 169:22 E	16	33:39	17	184	V	15	B/60	40% clouds
22-1765	New Zealand, S. Is.	M2	42:37 S; 170:00 E	16	33:40	17	182	V	15	B/60	50% clouds
22-1766	New Zealand, S. Is.	M2	42:15 S; 170:51 E	16	33:40	17	182	V	16	B/60	50% clouds
22-1767	New Zealand, S. Is.	M2	41:52 S; 171:34 E	16	33:40	17	182	V	16	B/60	70% clouds
*22-1768	New Zealand, S. Is.	M2	41:29 S; 172:17 E	16	33:40	17	182	V	17	B/60	95% clouds
*22-1769	New Zealand, S. Is.	M2	41:00 S; 172:59 E	16	33:40	17	182	V	18	B/60	80% clouds
*22-1770	New Zealand, S. Is.	M2	40:41 S; 173:41 E	16	33:40	17	182	V	18	B/60	80% clouds
22-1771	New Zealand, S. Is.	M2	40:17 S; 174:22 E	16	33:40	17	182	V	19	B/60	70% clouds
22-1772	New Zealand, S. Is.	M2	39:53 S; 175:00 E	16	33:41	17	182	V	20	B/60	70% clouds
*22-1773	New Zealand, N. Is.	M2	39:28 S; 175:42 E	16	33:41	17	180	V	20	B/60	80% clouds
*22-1774	New Zealand, N. Is.	M2	39:00 S; 176:22 E	16	33:42	17	178	V	21	B/60	90% clouds
22-1775	New Zealand, N. Is.	M2	38:38 S; 177:00 E	16	33:42	17	178	V	22	B/60	80% clouds
22-1776	New Zealand, N. Is.	M2	38:13 S; 177:40 E	16	33:42	17	178	V	22	B/60	60% clouds
22-1777	New Zealand, N. Is.	M2	37:49 S; 178:17 E	16	33:42	17	178	V	23	B/60	50% clouds
22-1778	New Zealand, N. Is.	M2	37:23 S; 178:55 E	16	33:42	17	176	V	24	B/60	30% clouds
*22-1783	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds

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†22-1784	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1785	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1786	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1787	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1788	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1789	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1790	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1791	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1792	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1793	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1794	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1795	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1796	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1797	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1798	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1799	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1800	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1801	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1802	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1803	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1804	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1805	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1806	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1807	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1808	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1809	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
†22-1810	Atlantic (cloud features)	M8		20		72		HO		B/60	70% clouds
23-1878	Australia, Anxious Bay		33:55 S; 134:00 E	20	131:23	79	228	LO	13	S/50	Underexposed
23-1879	Australia, Denial Bay		33:45 S; 134:20 E	20	131:23	79	228	LO	13	S/50	Underexposed
23-1880	Australia, Lake Gairdner	11A	33:05 S; 134:40 E	20	131:23	79	228	NV	15	S/50	

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23-1881	Australia, Lake Gairdner	11A	31:50 S; 134:55 E	20	131:24	79	227	NV	17	S/50	
23-1882	Australia, Lake Gairdner	11A	31:40 S; 135:10 E	20	131:24	79	227	NV	17	S/50	
23-1883	Australia, Lake Torrens	11A	30:10 S; 137:40 E	20	131:24	79	227	NV	20	S/50	
23-1884	Australia, Lake Eyre	11A	30:10 S; 138:00 E	20	131:24	79	227	NV	20	S/50	
23-1885	Australia, Lake Torrens	11A	29:45 S; 138:00 E	20	131:25	79	227	NV	20	S/50	
23-1886	Australia, Sturt Desert	11A	27:30 S; 139:50 E	20	131:25	79	227	NV	23	S/50	
23-1887	Australia, Sturt Desert	11A	27:20 S; 140:00 E	20	131:25	79	227	NV	23	S/50	
23-1888	Australia, Moanba Lake	11A	27:05 S; 140:15 E	20	131:25	79	227	NV	23	S/50	
23-1889	Australia, Barcoo River		25:05 S; 142:40 E	20	131:26	79	226	NV	26	S/50	
23-1890	Australia, Barcoo River		24:30 S; 143:00 E	20	131:26	79	226	NV	27	S/50	
23-1891	Australia, Barcoo River		24:20 S; 143:00 E	20	131:26	79	226	NV	27	S/50	
23-1892	Australia, Lake Buchanan		21:05 S; 145:55 E	20	131:27	79	225	NV	32	S/50	
23-1893	Australia, Lake Buchanan		20:50 S; 146:00 E	20	131:28	79	224	NV	33	S/50	
23-1894	Australia, Torrens Creek		20:30 S; 146:05 E	20	131:28	79	224	NV	33	S/50	
23-1895	Coral Sea reefs	11B	17:45 S; 148:10 E	20	131:29	79	224	LO	36	S/50	30% clouds
23-1896	Coral Sea reefs	11B	17:40 S; 148:20 E	20	131:29	79	224	LO	36	S/50	30% clouds
23-1897	Coral Sea reefs	11B	17:30 S; 148:20 E	20	131:29	79	224	LO	36	S/50	30% clouds
23-1898	Louisiade Archipelago		11:50 S; 153:00 E	20	131:30	79	223	LO	44	S/50	40% clouds
23-1899	Louisiade Archipelago		11:15 S; 153:00 E	20	131:30	79	223	NV	44	S/50	20% clouds
†23-1900	Pacific (clouds)	3A		20		79	223	LO		S/50	Partial frame
†23-1901	Pacific (clouds)	3A		20		79	223	LO		S/50	Partial frame
†23-1902	Pacific (clouds)	3A		20		79	223	LO		S/50	Partial frame
23-1903	Pacific, Midway Is.	3A	28:14 N; 177:20 W	20	131:43	79	223	NV	85	S/50	40% clouds
†23-1904	Pacific (clouds)	3A		20		79	223	LO		S/50	
†23-1905	Pacific (clouds)	3A		20		79	223	LO		S/50	
†23-1906	Pacific (clouds)	3A		20		79	223	LO		S/50	
†23-1907	Chile, Andes Mts.	7A	37:00 S; 75:00 W	21	144:41	88	229	NV	5	S/250	
†23-1908	Chile, Andes Mts.	8B		21		88	228	NV		S/250	90% clouds
23-1909	Argentina (dunes)	8C	32:00 S; 68:10 W	21	144:43	88	227	NV	15	S/250	
23-1910	Argentina (dunes)	8C	32:00 S; 68:10 W	21	144:43	88	227	NV	15	S/250	
23-1911	Argentina (dunes)	8C	32:00 S; 68:10 W	21	144:43	88	227	NV	15	S/250	
23-1912	Argentina (dunes)	8C	31:30 S; 67:13 W	21	144:43	88	227	NV	16	S/250	
23-1913	Argentina (dunes)	8C	31:30 S; 67:13 W	21	144:43	88	227	NV	16	S/250	
23-1914	Argentina (dunes)	8C	31:30 S; 67:13 W	21	144:43	88	227	NV	16	S/250	
23-1915	Argentina, Grand Chaco		24:40 S; 60:35 W	21	144:49	88	225	NV	25	S/250	
23-1916	Paraguay, Barranco River	8D	22:25 S; 57:35 W	21	144:49	88	225	NV	29	S/250	
23-1917	Paraguay, Paraguay River	8D	22:30 S; 57:20 W	21	144:49	88	225	NV	29	S/250	
23-1918	Paraguay, Paraguay River	8D	21:20 S; 58:10 W	21	144:50	88	224	NV	31	S/250	
23-1919	Paraguay, Paraguay River	8D	21:15 S; 58:10 W	21	144:50	88	224	NV	31	S/250	

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23-1920	Paraguay, Puerto Lidia	8D	21:10 S; 58:05 W	21	144:50	88	224	NV	31	S/250	
23-1921	Paraguay, Paraguay River	8D	20:35 S; 58:35 W	21	144:50	88	224	NV	32	S/250	
23-1922	Paraguay, Paraguay River	8D	20:15 S; 58:25 W	21	144:50	88	224	NV	32	S/250	
23-1923	Paraguay, Paraguay River	8D	20:15 S; 58:15 W	21	144:50	88	224	NV	32	S/250	
23-1925	Brazil, Campo Grande		20:10 S; 55:05 W	21	144:51	88	223	NV	34	S/250	
23-1926	Brazil, Campo Grande		20:35 S; 54:50 W	21	144:51	88	223	NV	34	S/250	
23-1927	Brazil, Tocantins River		9:10 S; 48:15 W	21	144:51	88	223	NV	36	S/250	
23-1928	Brazil, Tocantins River		9:00 S; 48:10 W	21	144:51	88	223	NV	36	S/250	
23-1929	Brazil, Rio do Sono		8:55 S; 48:10 W	21	144:51	88	223	NV	36	S/250	
23-1930	Brazil, Ouro		8:05 S; 46:10 W	21	144:54	88	222	NV	48	S/250	
23-1931	Brazil (impact structure)	8E	8:10 S; 45:55 W	21	144:54	88	222	NV	48	S/250	
†23-1932	Atlantic (clouds)	3A		21		88	223	NV		S/250	
†23-1933	Atlantic (clouds)	3A		21		88	223	NV		S/250	
†23-1934	Atlantic (clouds)	3A		21		88	223	NV		S/250	
†23-1935	Atlantic (clouds)	3A		21		88	223	NV		S/250	
†23-1936	Atlantic (clouds)	3A		21		88	223	NV		S/250	
†23-1937	Atlantic (clouds)	3A		21		88	223	NV		S/250	
†23-1938	Atlantic (clouds)	3A		21		88	223	NV		S/250	
23-1939	Canary Is.	9O	27:40 N; 18:10 W	21	145:03	88	223	NV	88	S/250	5% clouds
23-1940	Canary Is.		28:10 N; 16:50 W	21	145:04	88	224	NV	82	S/250	Partial frame
23-1941	Portugal, Cape St. Vincent		37:00 N; 9:00 W	21	145:06	88	225	NV	70	S/250	
23-1942	Portugal, Cape St. Vincent		37:05 N; 8:55 W	21	145:06	88	225	NV	70	S/250	
23-1943	Portugal		36:55 N; 8:00 W	21	145:06	88	225	NV	70	S/250	
23-1944	Portugal/Spain		37:00 N; 7:15 W	21	145:06	88	225	NV	69	S/250	
23-1945	France, mouth of Rhône River		43:20 N; 4:50 E	21	145:09	88	226	NV	65	S/250	10% clouds
†24-1946	Atlantic (clouds)	3A		24		135	226	LO		S/50	
†24-1947	Atlantic (clouds)	3A		24		135	226	LO		S/50	
†24-1948	Atlantic (clouds)	3A		24		135	226	LO		S/50	
†24-1949	Atlantic (clouds)	3A		24		135	226	LO		S/50	
†24-1950	Atlantic (clouds)	3A		24		135	226	LO		S/50	
†24-1951	Atlantic (clouds)	3A		24		135	226	LO		S/50	
24-1952	England, Lundy Is.		51:10 N; 4:40 W	24	219:12	135	226	LO	45	S/50	60% clouds
24-1953	France, Somme Canal		50:50 N; 2:20 E	24	219:13	135	226	LO	45	S/50	60% clouds
24-1954	Netherlands, The Hague		51:30 N; 3:25 E	24	219:13	135	226	LO	41	S/50	70% clouds
24-1955	Netherlands, Europoort		51:55 N; 4:10 E	24	219:13	135	226	LO	40	S/50	70% clouds
24-1956	Netherlands, Europoort		52:20 N; 4:30 E	24	219:13	135	226	LO	40	S/50	70% clouds
†24-1957	Central Europe (clouds)			24		135	226	LO		S/50	Hazy
†24-1958	Central Europe (clouds)			24		135	226	LO		S/50	Hazy
24-1959	Romania		46:20 N; 24:10 E	24	219:17	135	223	LO	28	S/50	Hazy
24-1960	Romania, Puzaul River		45:50 N; 26:40 E	24	219:17	135	223	LO	26	S/50	Hazy

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24-1961	Romania, Danube Delta	9M	45:35 N; 28:10 E	24	219:17	135	223	LO	25	S/50	Hazy
24-1962	Romania, Danube Delta	9M	45:30 N; 28:50 E	24	219:17	135	223	LO	25	S/50	Hazy
24-1963	Black Sea/Danube Delta	9M	45:20 N; 29:05 E	24	219:17	135	223	LO	24	S/50	Hazy
24-1964	Black Sea/Danube Delta	9M	45:10 N; 29:25 E	24	219:17	135	223	LO	24	S/50	Hazy
24-1965	Black Sea/Danube Delta	9M	45:10 N; 29:40 E	24	219:17	135	223	LO	23	S/50	Hazy
24-1966	Romania, Danube Delta	9M	44:50 N; 30:30 E	24	219:18	135	222	LO	22	S/50	Hazy
24-1967	Romania, Danube Delta	9M	44:40 N; 29:30 E	24	219:18	135	222	LO	22	S/50	Hazy
24-1968	U.S.S.R., Black Sea		45:30 N; 32:00 E	24	219:18	135	222	LO	20	S/50	Hazy
†24-1969	Black Sea (clouds)			24		135	222	HO		S/50	60% clouds
24-1970	Turkey, Sinop Pt.		42:00 N; 36:40 E	24	219:19	135	221	LO	16	S/50	Hazy
†24-1971	Black Sea (clouds)			24		135	219	HO		S/50	
†24-1972	Black Sea (clouds)			24		135	219	HO		S/50	
†24-1973	Black Sea (clouds)			24		135	219	HO		S/50	
†24-1974	Black Sea (clouds)			24		135	219	HO		S/50	
24-1975	Turkey/U.S.S.R		42:10 N; 40:00 E	24	219:20	135	219	LO	14	S/50	50% clouds
†24-1976	Turkey, Kuzdag Mts.			24	219:20	135	219	HO	13	S/50	80% clouds
†24-1977	Turkey, Kuzdag Mts.			24	219:20	135	219	HO	13	S/50	80% clouds
24-1978	Turkey, Lake Van		39:10 N; 42:35 E	24	219:20	135	219	LO	12	S/50	30% clouds
24-1979	Turkey, Lake Van		38:30 N; 43:00 E	24	219:21	135	218	LO	10	S/50	15% clouds
24-1980	Turkey, Lake Van		38:20 N; 43:25 E	24	219:21	135	218	LO	10	S/50	5% clouds
24-1981	Turkey/Lake Urmia		37:20 N; 44:00 E	24	219:21	135	218	LO	10	S/50	5% clouds
24-1982	Turkey/Lake Urmia		37:00 N; 44:50 E	24	219:21	135	218	LO	9	S/50	
24-1983	Iran, Lake Urmia		36:40 N; 45:10 E	24	219:21	135	218	LO	9	S/50	Partial frame
24-1984	Iran, Great Zab River		37:05 N; 43:40 E	24	219:21	135	218	LO	9	S/50	Partial frame
24-1985	Iran, Lake Urmia		38:20 N; 45:20 E	24	219:21	135	218	HO	8	S/50	Hazy
24-1986	Iran, Lake Urmia		37:40 N; 45:50 E	24	219:21	135	218	HO	7	S/50	Hazy
24-1987	Iran, Caspian Sea		38:20 N; 47:50 E	24	219:21	135	218	HO	7	S/50	Hazy
24-1988	Iran, Caspian Sea		38:20 N; 47:50 E	24	219:22	135	217	HO	7	S/50	Hazy
24-1989	Iran, Caspian Sea		38:20 N; 48:20 E	24	219:22	135	217	HO	7	S/50	Hazy
24-1990	Iran, Talish Mts.		38:00 N; 48:40 E	24	219:22	135	217	HO	7	S/50	Hazy
24-1991	Iran, Talish Mts.		37:40 N; 49:00 E	24	219:23	135	216	LO	6	S/50	Hazy
24-1992	Iran, Talish Mts.		37:00 N; 48:20 E	24	219:23	135	216	LO	6	S/50	Hazy
24-1993	Iran, Zagros Mts.		34:40 N; 48:00 E	24	219:23	135	216	LO	5	S/50	Partial frame
*24-1994	Iran, Zagros Mts.		34:20 N; 48:25 E	24	219:23	135	216	LO	5	S/50	Partial frame
*24-1995	Iran, Zagros Mts.		34:10 N; 48:20 E	24	219:23	135	216	LO	5	S/50	Partial frame
*24-1996	Iran, Zagros Mts.		33:50 N; 48:40 E	24	219:23	135	216	LO	4	S/50	Hazy
*24-1997	Iran, Zagros Mts.		33:40 N; 49:00 E	24	219:23	135	216	LO	3	S/50	Underexposed
†24-2002	Pacific (clouds)	3A		24		135	216	HO		S/50	
24-2003	Mexico, Tepeyahualco		19:20 N; 97:25 W	24	220:24	135	220	NV	68	S/250	5% clouds
24-2004	Mexico, Tepeyahualco		19:30 N; 97:40 W	24	220:24	135	220	NV	68	S/250	10% clouds
24-2005	Mexico, Teziutlan		19:50 N; 97:30 W	24	220:24	135	220	NV	69	S/250	15% clouds
†24-2006	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2007	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2008	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2009	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds

<i>Photo no., AST</i>	<i>Description</i>	<i>Site</i>	<i>Coordinates of principal point, deg:min</i>	<i>Date, July 1975</i>	<i>GET hr:min</i>	<i>Rev.</i>	<i>Altitude, km</i>	<i>Tilt</i>	<i>Sun angle, deg.</i>	<i>Camera and lens</i>	<i>Remarks</i>
†24-2010	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2011	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2012	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2013	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2014	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2015	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2016	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
†24-2017	Gulf of Mexico (clouds)	3A		24		135	220	NV		S/250	25% clouds
24-2018	U.S., Florida		29:35 N; 85:20 W	24	220:27	135	222	NV	85	S/250	25% clouds
*24-2019	U.S., Santa Rosa Beach		30:15 N; 86:10 W	24	220:28	135	223	NV	85	S/250	Partial frame
†25-2165	Storm cloud	3B		23		123	226	HO		B/100	
†25-2166	Storm cloud	3B		23		123	226	HO		B/100	
†25-2167	Storm cloud	3B		23		123	226	HO		B/100	
†25-2168	Storm cloud	3B		23		123	226	HO		B/100	
†25-2169	Storm cloud	3B		23		123	226	HO		B/100	
†25-2170	Storm cloud	3B		23		123	226	HO		B/100	
†27-2331	Cloud features	3A		20		72	227	HO		S/50	
27-2340	Argentina (dunes)	8C	32:00 S; 67:40 W	20	121:02	73	227	NV	19	S/250	
27-2341	Argentina (dunes)	8C	31:40 S; 67:30 W	20	121:02	73	227	NV	20	S/250	
27-2342	Argentina (dunes)	8C	31:30 S; 67:20 W	20	121:02	73	227	NV	20	S/250	
*27-2343	Argentina (dunes)	8C		20	121:02	73	227	NV	20	S/250	Partial frame
27-2344	Argentina (dunes)	8C	31:40 S; 67:30 W	20	121:02	73	227	NV	20	S/250	Partial frame
27-2345	Paraguay			20		73	227	NV		S/50	Hazy
27-2346	Paraguay			20		73	227	NV		S/50	Hazy
27-2347	Paraguay			20		73	227	NV		S/50	Hazy
27-2348	Brazil, Araguaia River		13:20 S; 51:50 W	20	121:08	73	222	LO	45	S/50	15% clouds
27-2349	Brazil, Araguaia River		13:20 S; 51:50 W	20	121:08	73	222	LO	45	S/50	20% clouds
27-2350	Brazil, Tocantins River		12:00 S; 50:10 W	20	121:09	73	222	LO	46	S/50	30% clouds
†27-2351	Atlantic (clouds)	3A		20		73	222	LO		S/50	Partial frame
†27-2352	Atlantic (clouds)	3A		20		73	222	LO		S/50	Partial frame
†27-2353	Atlantic (clouds)	3A		20		73	222	LO		S/50	Partial frame
†27-2354	Atlantic (clouds)	3A		20		73	222	LO		S/50	Partial frame
†27-2355	Cape Verde Is.		17:00 N; 25:20 W	20	121:18	73	221	LO	86	S/50	10% clouds
27-2356	Canary Is./Morocco		28:30 N; 17:30 W	20	121:22	73	223	HO	79	S/50	15% clouds
27-2357	Canary Is./Morocco		28:20 N; 16:50 W	20	121:22	73	223	HO	79	S/50	15% clouds
27-2358	Canary Is./Morocco		28:30 N; 16:30 W	20	121:22	73	223	LO	79	S/50	15% clouds
27-2359	Spain, Strait of Gibraltar	9K	33:45 N; 8:55 W	20	121:23	73	224	HO	70	S/50	
27-2360	Spain, Strait of Gibraltar	9K	33:40 N; 8:45 W	20	121:23	73	224	HO	70	S/50	
27-2361	Spain, Strait of Gibraltar	9K	33:45 N; 8:30 W	20	121:23	73	224	HO	70	S/50	
27-2362	Spain, Strait of Gibraltar	9K	36:20 N; 7:15 W	20	121:24	73	225	HO	68	S/50	
27-2363	Spain, Strait of Gibraltar	9K	36:15 N; 6:55 W	20	121:24	73	225	HO	68	S/50	
27-2364	Spain, Strait of Gibraltar	9K	36:10 N; 6:20 W	20	121:24	73	225	HO	67	S/50	Partial frame

Photo no., AST-	Description	Site	Coordinates of principal point, deg:min	Date, July 1975	GET hr:min	Rev.	Altitude, km	Tilt	Sun angle, deg.	Camera and lens	Remarks
27-2365	Spain, Strait of Gibraltar	9K	36:10 N; 5:40 W	20	121:25	73	225	LO	67	S/50	
27-2366	Spain, Strait of Gibraltar	9K	36:30 N; 6:50 W	20	121:25	73	225	NV	67	S/50	
27-2367	Spain, Strait of Gibraltar	9K	36:30 N; 6:50 W	20	121:25	73	225	NV	67	S/50	
27-2368	Spain, Sevilla		38:00 N; 4:20 W	20	121:25	73	225	NV	64	S/50	
27-2369	Spain, Málaga		38:30 N; 4:00 W	20	121:25	73	226	NV	64	S/50	
27-2370	Spain, Málaga		37:40 N; 3:10 W	20	121:25	73	226	LO	64	S/50	
27-2371	Spain, Ibiza Is.		38:20 N; 2:50 W	20	121:26	73	226	LO	63	S/50	
27-2372	Spain, Ibiza Is.		38:40 N; 2:30 W	20	121:26	73	226	LO	63	S/50	
27-2373	Spain, Ibiza Is.		38:50 N; 2:00 W	20	121:26	73	226	LO	62	S/50	
27-2374	Spain, Balearic Is.		40:40 N; 0:00	20	121:26	73	226	LO	60	S/50	15% clouds
27-2375	Spain, Balearic Is.		40:40 N; 0:00	20	121:26	73	226	LO	60	S/50	15% clouds
27-2376	France, Gulf of Lions		42:35 N; 4:30 E	20	121:27	73	227	HO	57	S/50	25% clouds
27-2377	France, Gulf of Lions		43:20 N; 5:00 E	20	121:28	73	227	HO	56	S/50	20% clouds
27-2378	France, Gulf of Lions		44:00 N; 5:20 E	20	121:28	73	227	HO	55	S/50	20% clouds
27-2379	France, Gulf of Lions		43:15 N; 5:20 E	20	121:28	73	227	LO	55	S/50	10% clouds
27-2380	France, mouth of Rhône River		43:30 N; 5:10 E	20	121:28	73	227	NV	54	S/50	Partial frame
27-2381	France, mouth of Rhône River		43:25 N; 5:05 E	20	121:28	73	227	NV	54	S/50	Partial frame
†27-2382	Cloud features			20		73	227	NV		S/50	Poor
27-2383	Brazil, Envira River		9:30 S; 71:10 W	20	121:38	74	222	NV	48	S/50	
27-2384	Brazil, Envira River		9:30 S; 71:10 W	20	121:38	74	222	NV	48	S/50	
27-2385	Brazil, Envira River		9:30 S; 71:10 W	20	121:38	74	222	NV	48	S/50	
27-2386	Brazil, Jurua River		6:40 S; 69:50 W	20	121:39	74	222	NV	52	S/50	
27-2387	Brazil, Jurua River		6:40 S; 69:50 W	20	121:39	74	222	LO	52	S/50	
27-2388	Brazil, Jurua River		6:40 S; 69:50 W	20	121:39	74	222	LO	52	S/50	
27-2389	Brazil, Jurua River		6:40 S; 69:50 W	20	121:39	74	222	LO	52	S/50	Partial frame
27-2390	Brazil, Jurua River		6:40 S; 69:50 W	20	121:39	74	222	LO	52	S/50	Partial frame
27-2391	Brazil, Amazon River		3:50 S; 62:55 W	20	122:40	74	221	LO	55	S/50	Hazy
27-2392	Brazil, Amazon River		4:20 S; 63:20 W	20	122:40	74	221	LO	55	S/50	Hazy
27-2393	Brazil, Amazon River		3:45 S; 63:10 W	20	122:40	74	221	LO	55	S/50	Hazy
27-2394	Brazil, Amazon River		3:40 S; 62:45 W	20	122:40	74	221	LO	55	S/250	Hazy
†30-2395	Storm center	3B		20		74	222	LO		S/50	
†30-2396	Storm center	3B		20		74	222	LO		S/50	
†30-2397	Storm center	3B		20		74	222	LO		S/50	
†30-2398	Storm center	3B		20		74	222	LO		S/50	
†30-2399	Storm center	3B		20		74	222	LO		S/50	
*30-2541	Spain, La Coruña			20		74	227	HO		S/250	Partial frame
30-2542	Spain, La Coruña			20		74	227	HO		S/250	Partial frame
30-2543	England, Bristol Channel		51:25 N; 2:50 W	20	123:00	74	228	LO	42	S/250	30% clouds
30-2544	England, Bristol Channel		51:30 N; 2:40 W	20	123:00	74	228	LO	42	S/250	30% clouds
30-2545	England, Dorchester		50:40 N; 2:25 W	20	123:00	74	228	LO	42	S/250	25% clouds
30-2546	England, Bristol Channel		51:25 N; 2:50 W	20	123:00	74	228	LO	42	S/250	30% clouds
30-2547	England, Dorchester		50:45 N; 2:20 W	20	123:00	74	228	LO	42	S/250	15% clouds

Photo no., AST-	Description	Site	Coordinates of principal point, deg:min	Date, July 1975	GET hr:min	Rev.	Altitude, km	Tilt	Sun angle, deg.	Camera and lens	Remarks
30-2548	England, Bristol Channel		51:15 N; 3:00 W	20	123:00	74	228	LO	42	S/250	Hazy
30-2549	U.S.S.R., Medveditsa River		50:45 N; 44:40 E	20	123:07	74	228	NV	18	S/250	
30-2550	U.S.S.R., Medveditsa River		50:25 N; 44:30 E	20	123:07	74	228	NV	18	S/250	Hazy
30-2551	U.S.S.R., Medveditsa River		50:15 N; 44:00 E	20	123:07	74	228	NV	18	S/250	Hazy
30-2552	U.S.S.R., Volgograd		48:55 N; 44:50 E	20	123:08	74	228	NV	17	S/250	Hazy
30-2553	U.S.S.R., Volga River		48:25 N; 45:55 E	20	123:08	74	227	NV	16	S/250	Hazy
30-2554	U.S.S.R., Volga River		48:10 N; 46:10 E	20	123:08	74	227	NV	16	S/250	Hazy
+30-2555	Cloud features			20		74	227	LO		S/50	
+30-2556	Cloud features			20		74	227	LO		S/50	
30-2557	U.S.S.R., Kazakh Soviet Socialist Republic		48:30 N; 62:30 E	20	123:11	74	224	LO	11	S/250	Hazy
+30-2559	Cloud features	3A		20		74	224	HO		S/250	
+30-2560	Cloud features	3A		20		75		HO		S/50	
+30-2561	Cloud features	3A		20		75		HO		S/50	
+30-2562	Cloud features	3A		20		75		HO		S/50	
+30-2563	Cloud features	3A		20		75		HO		S/50	
+30-2564	Cloud features	3A		20		75		HO		S/50	
+30-2567	Cloud features	3A		20		75		HO		S/50	
+30-2568	Cloud features	3A		20		75		HO		S/50	
+30-2569	Cloud features	3A		20		75		HO		S/50	Poor image
+30-2570	Cloud features	3A		20		76		HO		S/50	
+30-2571	Cloud features	3A		20		76		HO		S/50	
+30-2572	Cloud features	3A		20		76		HO		S/50	
+30-2573	Cloud features	3A		20		76		HO		S/50	
+30-2574	Cloud features	3A		20		76		HO		S/50	
+30-2575	Cloud features	3A		20		76		HO		S/50	
+30-2585	Cloud features	3A		20		76		HO		S/50	
30-2586	Pacific, Tubuai Is.		23:30 S; 149:30 W	20	127:00	76	225	HO	31	S/50	Partial frame
30-2587	Pacific, Tuamotu Is.		16:30 S; 142:50 W	20	127:03	76	223	HO	36	S/50	30% clouds
30-2588	U.S., Idaho (lava flow)			20		77	226	HO		S/50	Partial frame
30-2589	U.S., Missouri River		47:45 N; 106:20 W	20		77	226	HO	55	S/50	Partial frame
30-2590	U.S., Garrison Reservoir in North Dakota			20		77	226	HO		S/50	Hazy
30-2591	Canada, Lake Nipigon		49:30 N; 88:30 W	20	127:23	77	226	HO	45	S/50	60% clouds
30-2592	Canada, Abitibi River		49:30 N; 81:00 W	20	127:23	77	226	LO	41	S/50	30% clouds
30-2593	Canada, Lake Nighthawk			20	127:23	77	226	HO		S/50	70% clouds
30-2594	Canada, James Bay		50:50 N; 80:20 W	20	127:24	77	226	LO	39	S/50	Hazy
30-2595	Canada, James Bay		50:20 N; 79:00 W	20	127:24	77	227	LO	39	S/50	Hazy
+30-2596	Cloud features	3A		20		77	227	HO		S/50	
30-2597	U.S., Olympic Mts.		47:50 N; 123:30 W	20	130:22	78	227	LO	59	S/250	Hazy
30-2598	U.S., Hood Canal		47:25 N; 123:45 W	20	130:22	78	227	LO	59	S/250	Hazy
30-2599	U.S., Enumclaw		47:15 N; 121:40 W	20	130:23	78	227	NV	60	S/250	25% clouds
30-2600	U.S., Cle Elum Lake	4A	47:20 N; 121:30 W	20	130:23	78	227	NV	60	S/250	10% clouds
30-2601	U.S., Cle Elum Lake	4A	47:30 N; 121:20 W	20	130:23	78	227	NV	60	S/250	15% clouds
30-2602	Canada		50:30 N; 108:15 W	20		78	227	NV		S/250	Hazy
30-2603	Canada		50:20 N; 107:45 W	20		78	227	NV		S/250	Hazy
30-2604	Canada, Saskatchewan		50:45 N; 106:45 W	20	130:25	78	228	NV	47	S/250	5% clouds

Photo no., AST-	Description	Site	Coordinates of principal point, deg:min	Date, July 1975	GET hr:min	Rev.	Altitude, km	Tilt	Sun angle, deg.	Camera and lens	Remarks
30-2605	Canada, Saskatchewan		49:05 N; 88:10 W	20		78	228	LO		S/250	Overexposed
30-2606	Canada, Lake Nipigon		49:15 N; 88:20 W	20	130:28	78	228	LO	37	S/250	Hazy
30-2607	Canada, Ontario		52: ? N; 81: ? W	20	130:29	78	227	NV		S/250	Hazy
30-2608	Canada, James Bay		51:10 N; 79:30 W	20	130:30	78	227	LO	30	S/250	15% clouds
†31-2625	Pacific (clouds)	3A		19		60	222	HO		N/35	
†31-2626	Pacific (clouds)	3A		19		60	222	HO		N/35	
†31-2627	Pacific (clouds)	3A		19		60	222	HO		N/35	
31-2628	Mexico, Yucatán		22:00 N; 89:30 W	19	102:04	60	222	LO	84	N/35	50% clouds
31-2633	Egypt, Suez Canal	9G	30:30 N; 33:20 E	20	118:26	71	226	LO	78	N/35	
31-2634	Israel, Levantine Rift	9G	30:50 N; 33:30 E	20	118:26	71	226	LO	78	N/35	
31-2635	Israel, Levantine Rift	9G	32:15 N; 34:30 E	20	118:26	71	226	LO	76	N/35	Partial frame
31-2636	Israel, Levantine Rift	9G	32:20 N; 35:00 E	20	118:26	71	226	NV	75	N/35	
31-2637	Israel, Levantine Rift	9G	32:30 N; 35:20 E	20	118:26	71	226	NV	75	N/35	
31-2638	Israel, Levantine Rift	9G	32:30 N; 35:30 E	20	118:26	71	226	NV	75	N/35	
31-2639	Israel, Levantine Rift	9G	33:10 N; 36:00 E	20	118:27	71	226	NV	75	N/35	
†31-2646	Pacific (clouds)	3A		20		72	226	HO		N/35	
†31-2647	Pacific (clouds)	3A		20		72	226	HO		N/35	
†31-2648	Pacific (clouds)	3A		20		72	226	HO		N/35	
†31-2649	Pacific (clouds)	3A		20		72	226	HO		N/35	
†31-2650	Pacific (clouds)	3A		20		72	226	HO		N/35	
31-2651	U.S., Lake Tahoe			20		77	227	HO		N/35	Hazy
31-2652	U.S., Calif./Utah			20		77	227	HO		N/35	Hazy
31-2653	U.S., Calif./Utah			20		77	227	HO		N/35	50% clouds
31-2654	U.S., Missouri River			20		77	227	HO		N/35	Hazy
†31-2655	Cloud features			20		77	226	LO		N/35	
†31-2656	Cloud features			20		77	226	LO		N/35	
†31-2657	Cloud features			20		77	226	LO		N/35	
†31-2658	Cloud features			20		77	226	LO		N/35	
31-2659	Australia, Streaky Bay	11A	33:20 S; 133:30 E	20	131:23	79	228	LO	7	N/35	Hazy
31-2660	Australia, Streaky Bay	11A	33:20 S; 133:40 E	20	131:23	79	228	LO	7	N/35	Hazy
31-2661	Australia, Streaky Bay	11A	32:50 S; 133:50 E	20	131:24	79	227	LO	7	N/35	Partial frame
31-2662	Australia, Lake Gairdner	11A	31:20 S; 135:40 E	20	131:24	79	227	LO	10	N/35	Hazy
31-2663	Australia, Lake Torrens	11A	30:30 S; 136:40 E	20	131:24	79	227	LO	11	N/35	Hazy
31-2664	Australia, Lake Eyre	11A	29:45 S; 137:30 E	20	131:25	79	227	LO	12	N/35	
31-2665	Australia, Sturt Desert	11A	27:15 S; 139:35 E	20	131:25	79	227	LO	16	N/35	
31-2666	Australia, Sturt Desert	11A	26:40 S; 139:30 E	20	131:25	79	227	LO	16	N/35	
31-2667	Australia, Lake Yamma Yamma	11A	25:50 S; 140:40 E	20	131:25	79	227	LO	18	N/35	
31-2668	Australia, Lake Yamma Yamma	11A	25:50 S; 140:40 E	20	131:25	79	227	LO	18	N/35	
31-2669	Australia, Lake Yamma Yamma	11A	25:40 S; 131:35 E	20	131:26	79	226	LO	18	N/35	
31-2670	Australia, Lake Cuddapan		25:20 S; 141:45 E	20	131:26	79	226	LO	18	N/35	Partial frame

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PHOTOGRAPHIC INDEX

F. J. Anders,^a J. E. Murphy,^a and S. E. Jones^b

This index contains a majority of the photographs taken by the Apollo crewmen during the Apollo-Soyuz Test Project (ASTP) mission; only poor-quality or otherwise unusable photographs are omitted. The Photographic Index is designed for use with both the Map Index and the Tabular Index. The original ASTP photographs are in color. The reproductions in this index are printed in black and white to save publication expenses.

The Photographic Index is divided into two sections. The first section contains the larger 1:1 reproductions of photographs taken with the 70-mm Hasselblad data camera (black) and the 70-mm Hasselblad reflex camera (silver). In the second section are the smaller 1:1 reproductions of photographs taken with the 35-mm Nikon reflex camera.

Within each section, the photographs are arranged in numerical order by film magazine and frame numbers. For example, in photograph AST-16-1272, the "16" refers to the film magazine number and the "1272" designates the serial frame number. In most cases, photographs have been oriented with north at the top of the page.

Because of the lack of recognizable features, some photographs listed in the Tabular Index have not been included in the Photographic Index. However, the essential information for these photographs has been compiled in the Tabular Index.

The film magazine numbers are those assigned by the Photographic Technology Laboratory at the NASA Lyndon B. Johnson Space Center after the mission. However, for the purposes of flight

planning, these magazines carried different designations before the mission. The premission magazine designations are listed in table C-I for correlation; the table also includes the film type and the type of camera used.

To order ASTP photographs, the complete number must be specified; e.g., AST-16-1272. The photographs may be ordered from

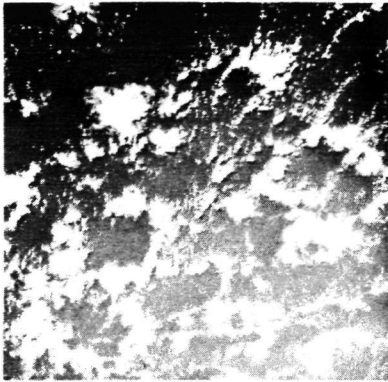
User Service Unit
EROS Data Center
Sioux Falls, South Dakota, 57198

TABLE C-I.—Information on ASTP Photographs

ASTP film magazine number	Premission magazine designation	Film type	Camera used
AST-1	CX-06	SO-368	Silver
AST-2	CX-12	SO-368	Silver
AST-6	CI-15	SO-168	Nikon
AST-7	CI-14	SO-168	Nikon
AST-8	CI-20	SO-168	Nikon
AST-9	CX-11	SO-368	Silver
AST-10	CX-18	SO-368	Nikon
AST-11	CI-18	SO-168	Nikon
AST-13	IF-02	2443	Silver
AST-14	CT-02	SO-242	Black
AST-15	CT-03	SO-242	Black
AST-16	CT-04	SO-242	Black
AST-17	CT-05	SO-242	Black
AST-19	CX-07	SO-368	Silver
AST-20	CX-09	SO-368	Silver
AST-21	CX-10	SO-368	Silver
AST-22	CX-13	SO-368	Black
AST-23	CX-16	SO-368	Silver
AST-24	CX-17	SO-368	Silver
AST-25	CX-19	SO-368	Black
AST-27	CX-08	SO-368	Silver
AST-30	CX-14	SO-368	Silver
AST-31	CS-03	CX-806	Nikon

^aNational Air and Space Museum, Smithsonian Institution.

^bKentron International, Inc., Houston, Texas.



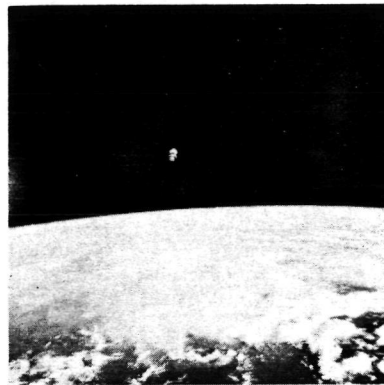
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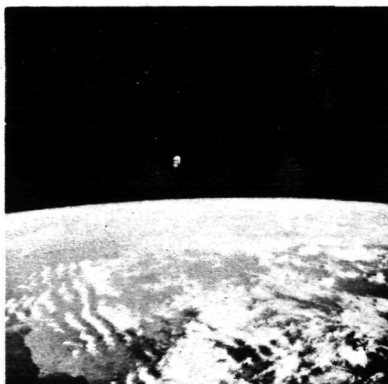
AST-1-2



AST-1-13



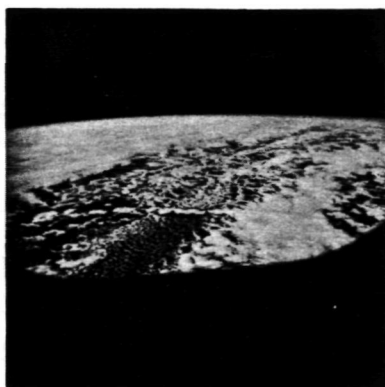
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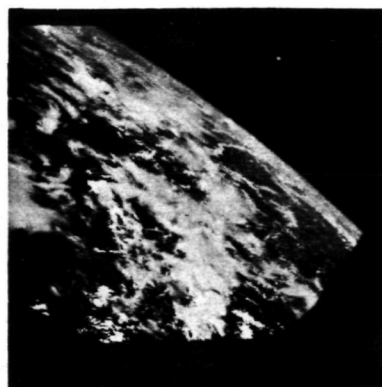
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AST 1-16



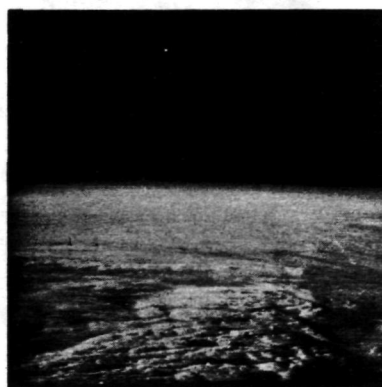
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AST-1-18



AST-1-19



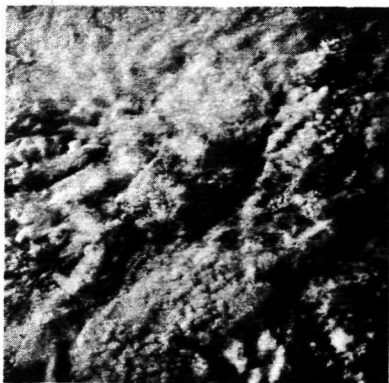
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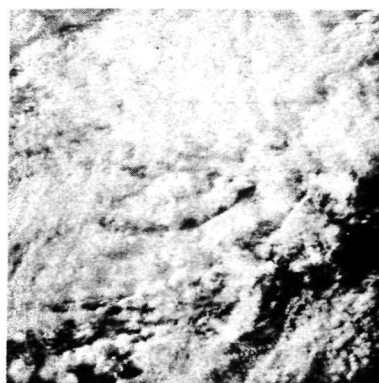
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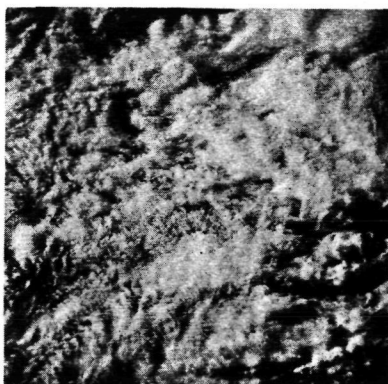
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AST-1-23



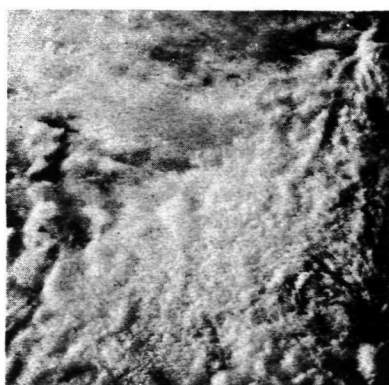
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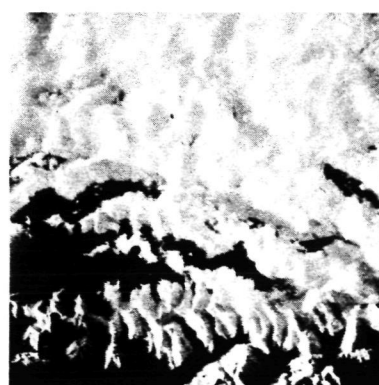
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AST-1-26



AST-1-27



AST-1-28



AST-1-29



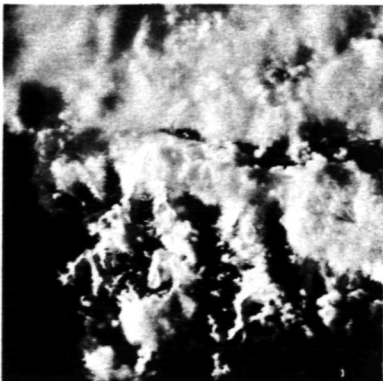
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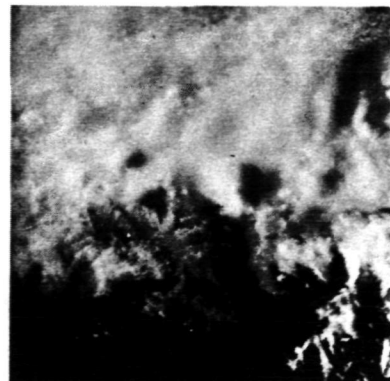
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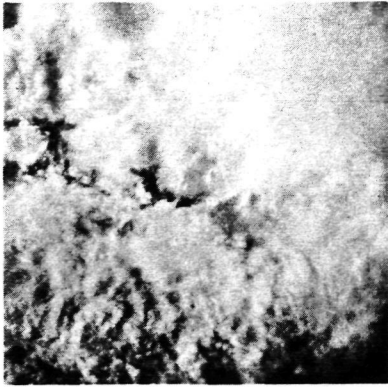
AST-1-32



AST-1-33



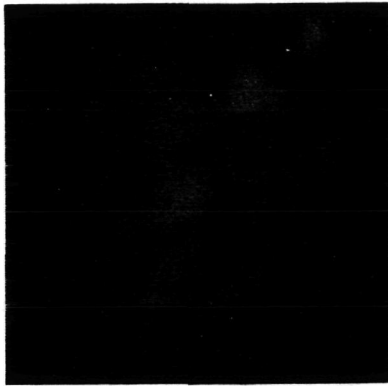
AST-1-34



AST-1-35



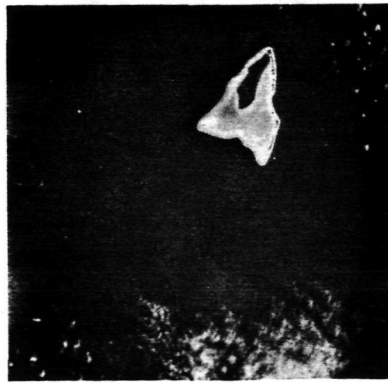
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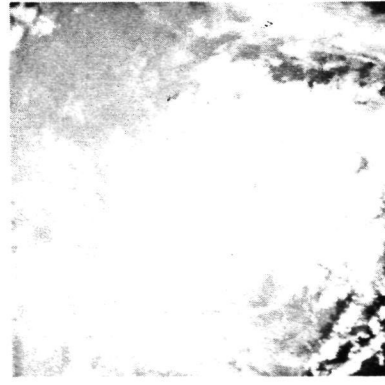
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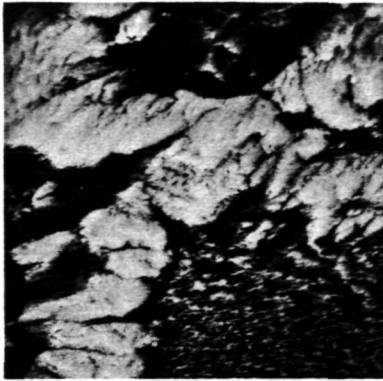
AST-1-38



AST-1-39



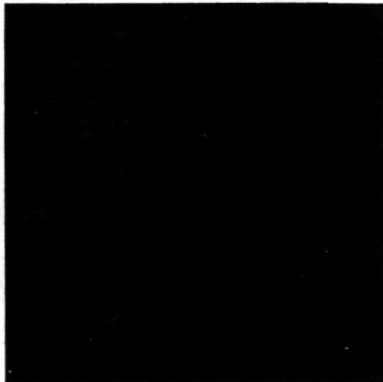
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AST-1-41



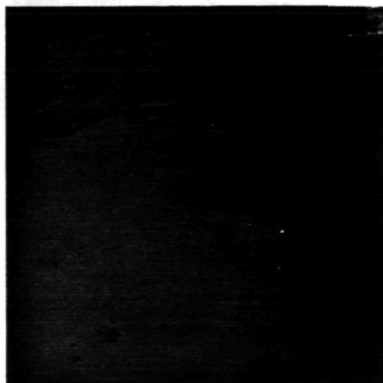
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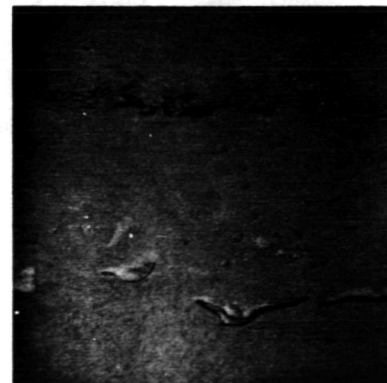
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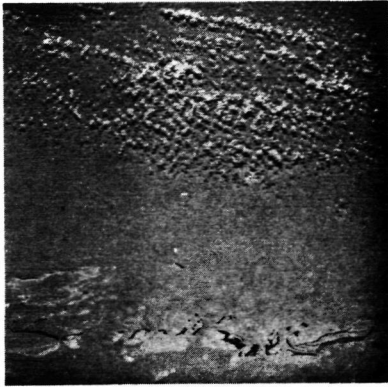
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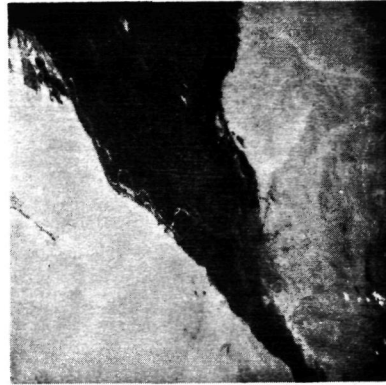
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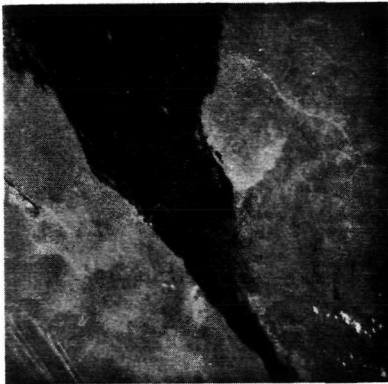
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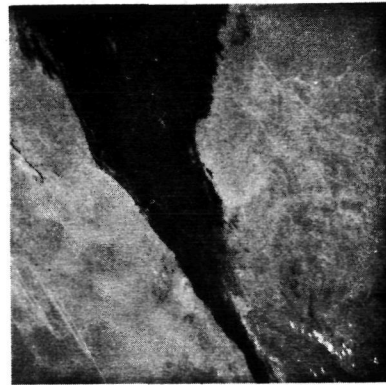
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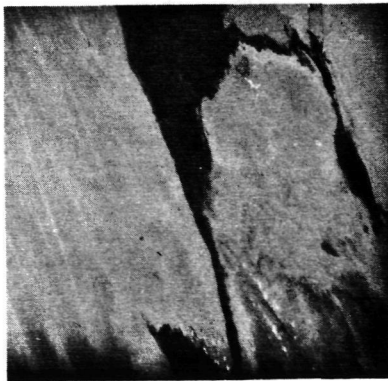
AST-1-48



AST-1-49



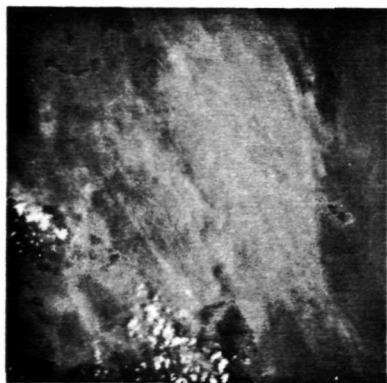
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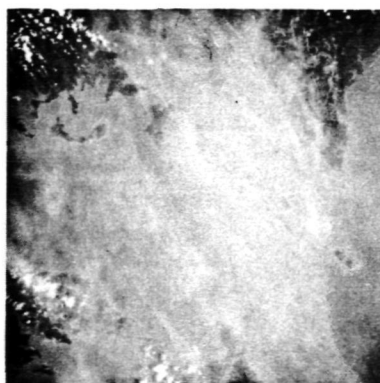
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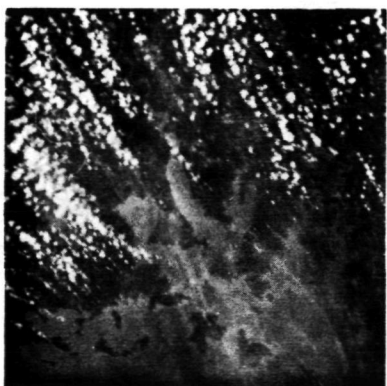
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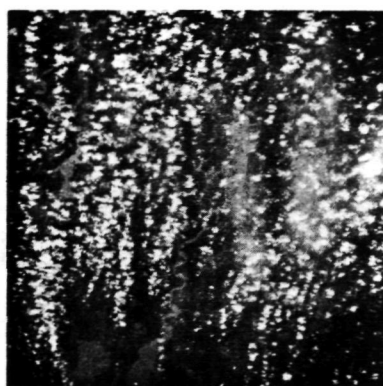
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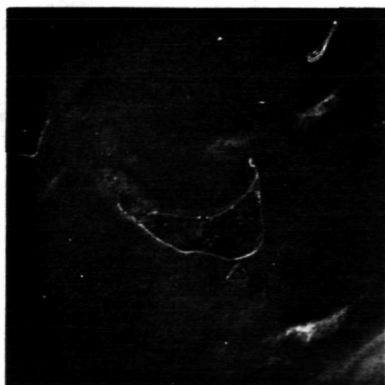
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AST-1-61



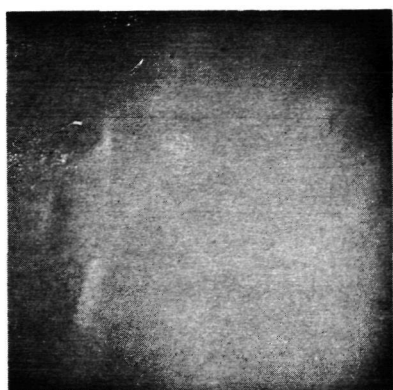
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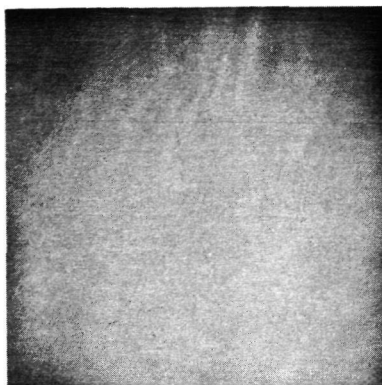
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AST-1-64



AST-1-65



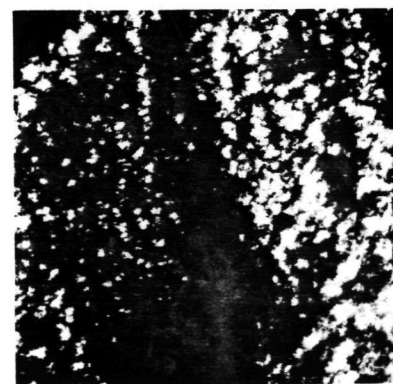
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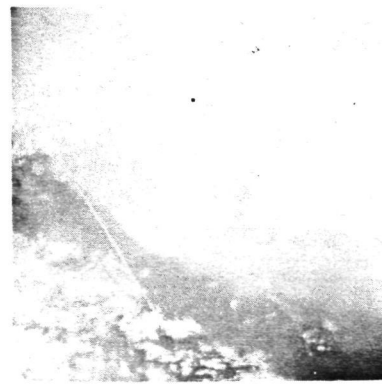
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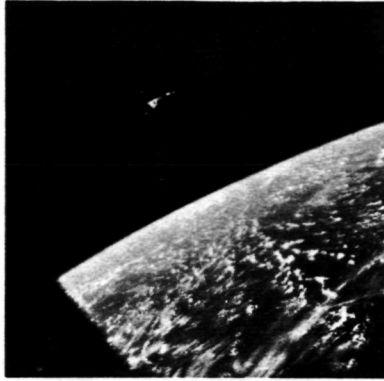
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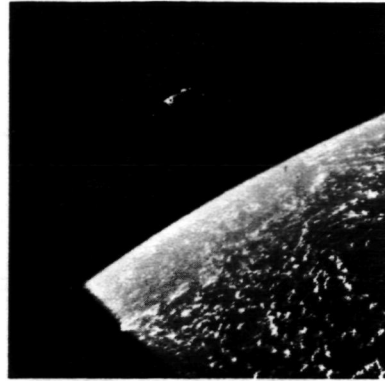
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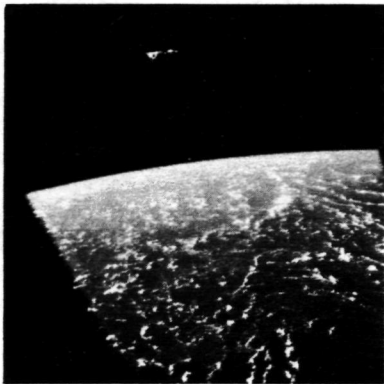
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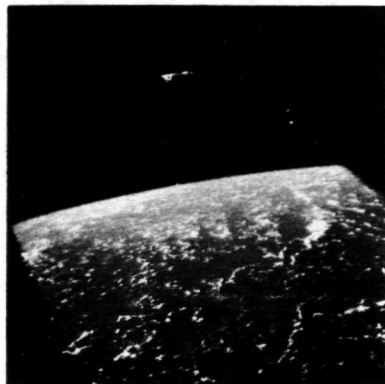
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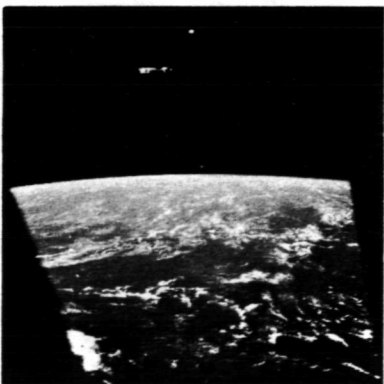
AST-2-84



AST-2-85



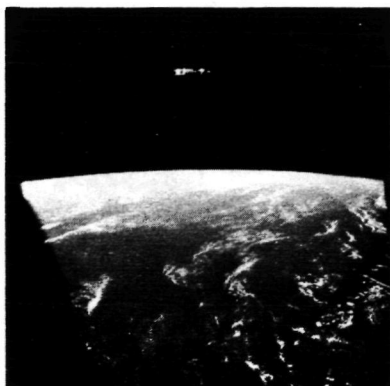
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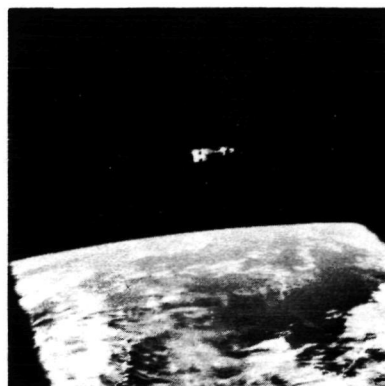
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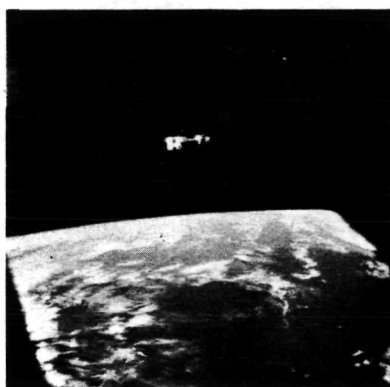
AST-2-88



AST-2-89



AST-2-90



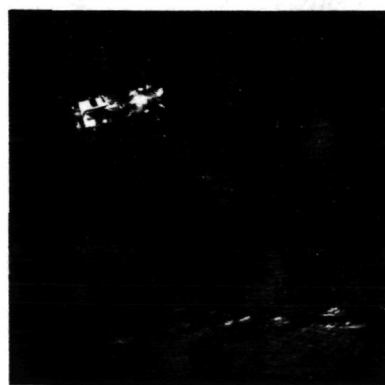
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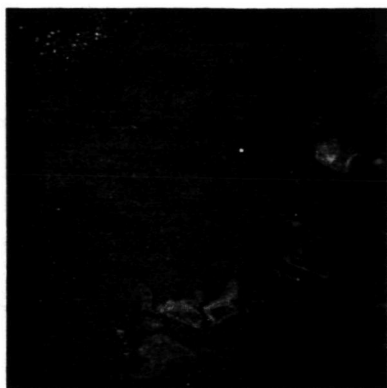
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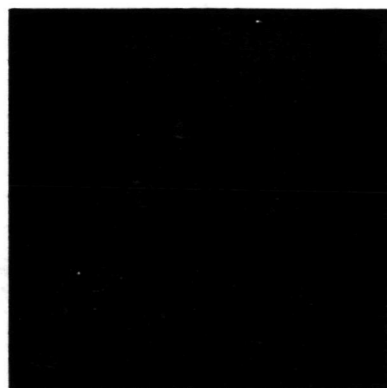
AST-2-93



AST-2-94



AST-2-102



AST-2-103



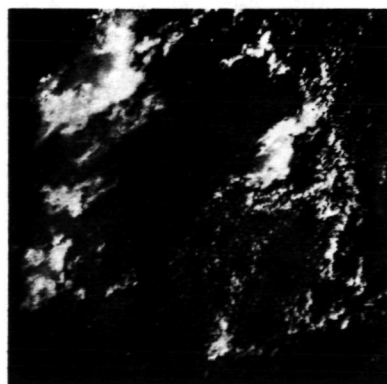
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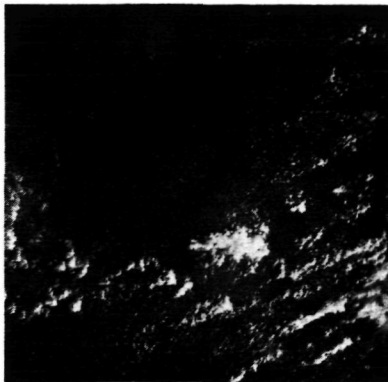
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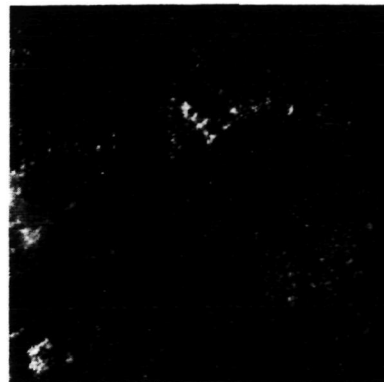
AST-2-106



AST-2-107



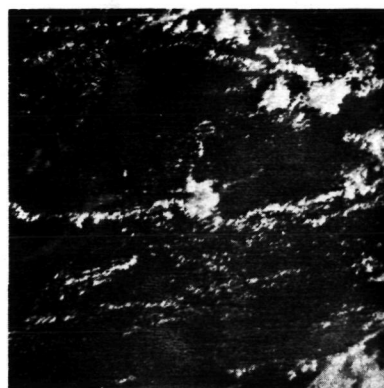
AST-2-108



AST-2-109



AST-2-110



AST-2-111



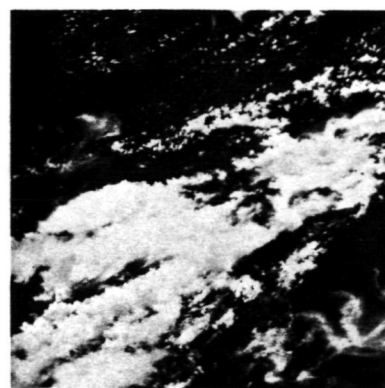
AST-2-112



AST-2-113



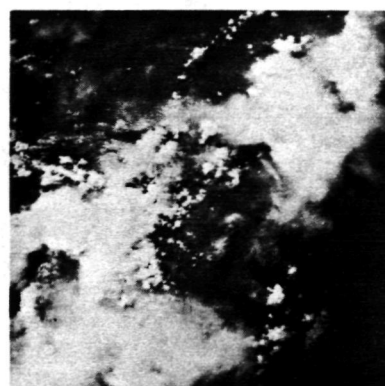
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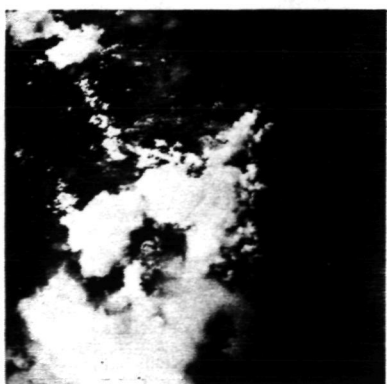
AST-2-115



AST-2-116



AST-2-117



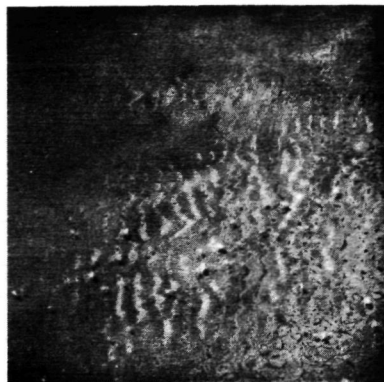
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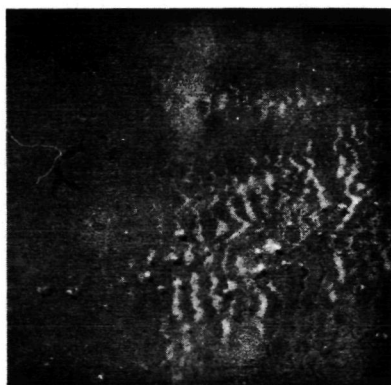
AST-2-119



AST-2-120



AST-2-121



AST-2-122



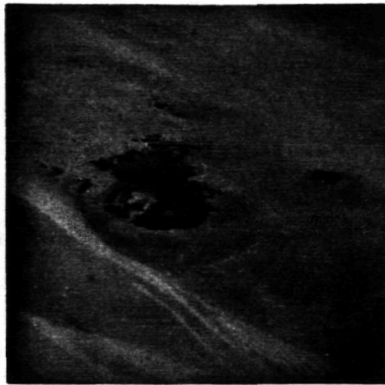
AST-2-123



AST-2-124



AST-2-125



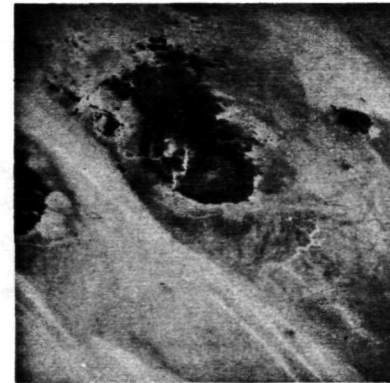
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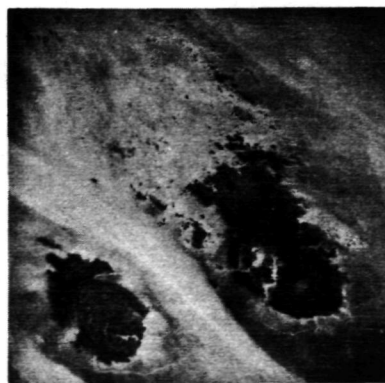
AST-2-127



AST-2-128



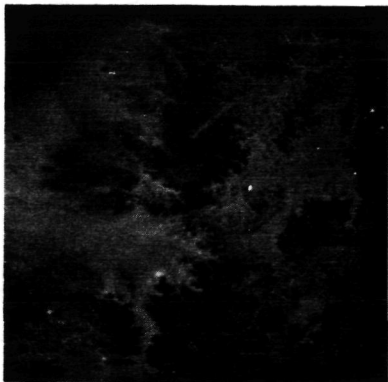
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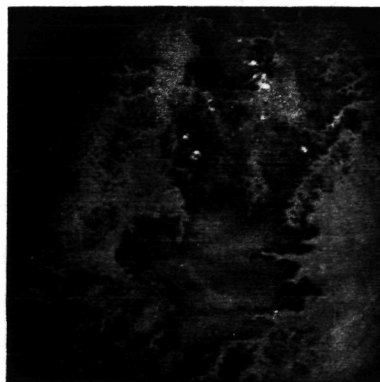
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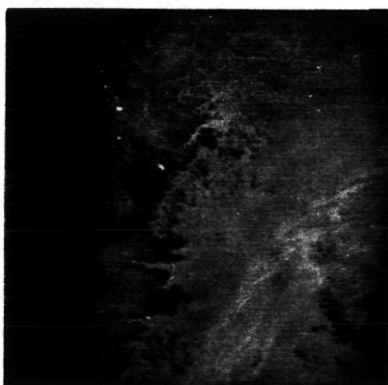
AST-2-131



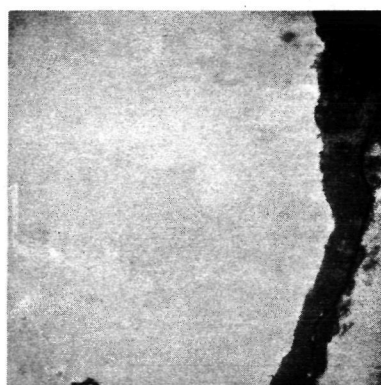
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AST-2-133



AST-2-134



AST-2-135



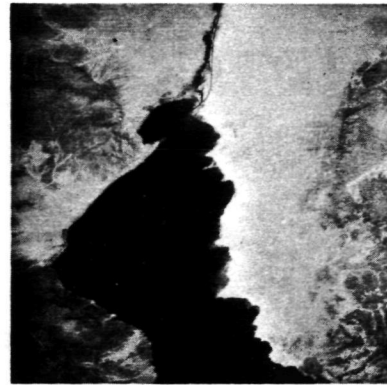
AST-2-136



AST-2-137



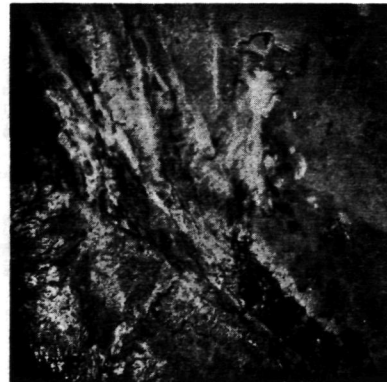
AST-2-138



AST-2-139



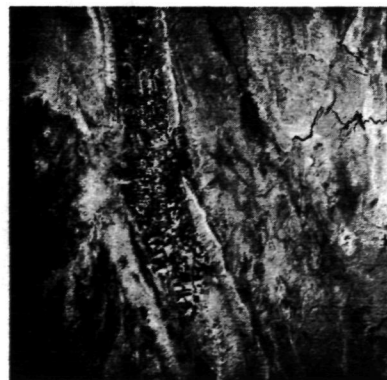
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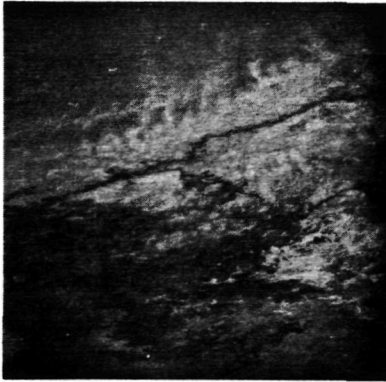
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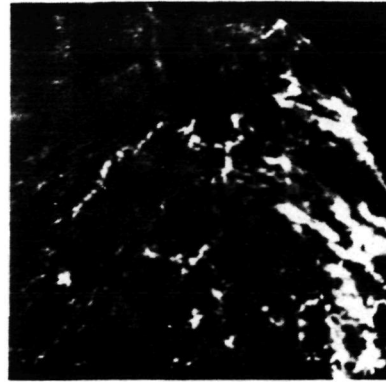
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AST-2-143



AST-2-144



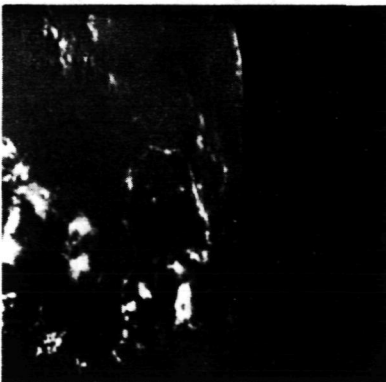
AST-9-504



AST-9-505



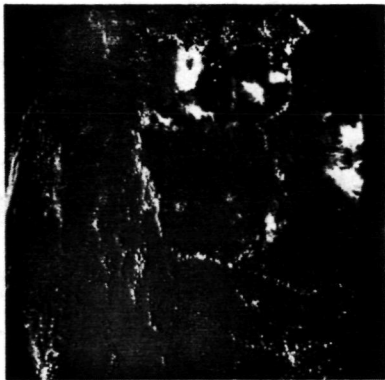
AST-9-506



AST-9-507



AST-9-508



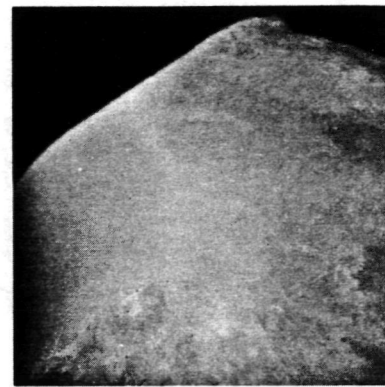
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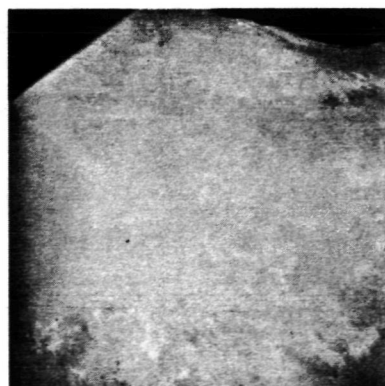
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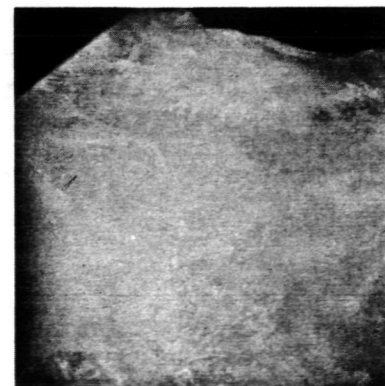
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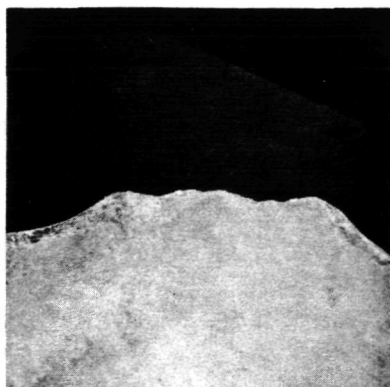
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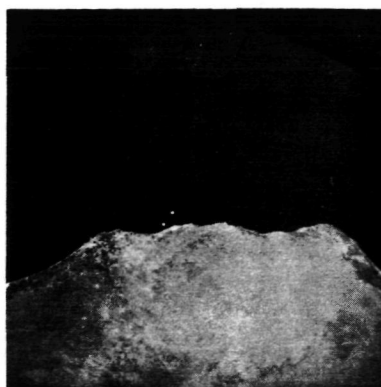
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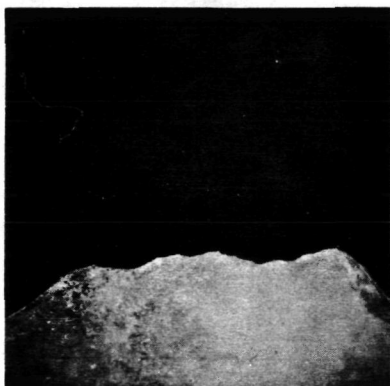
AST-9-514



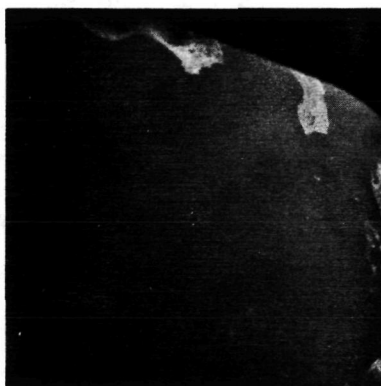
AST-9-515



AST-9-516



AST-9-517



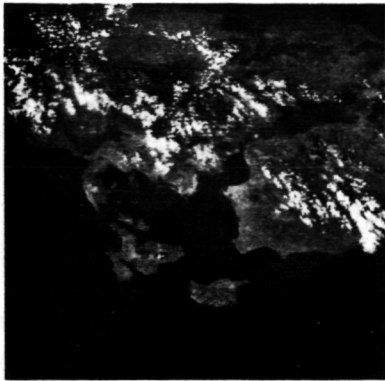
AST-9-518



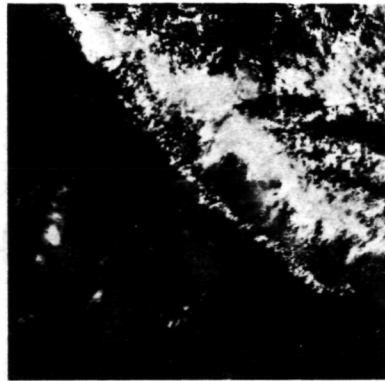
AST-9-519



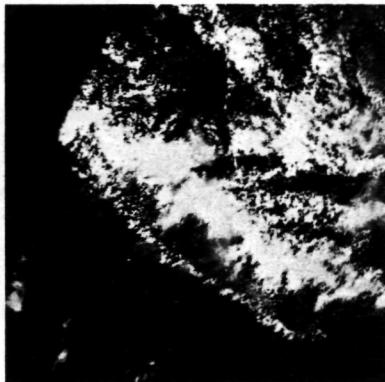
AST-9-520



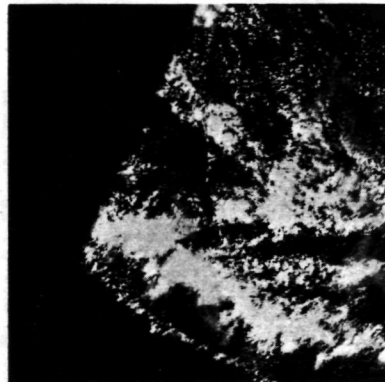
AST-9-521



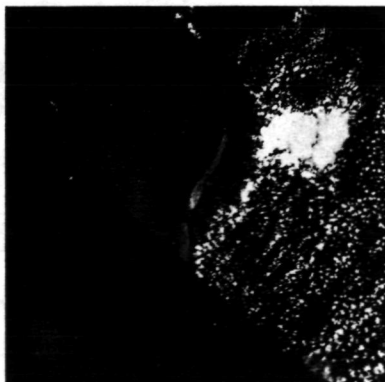
AST-9-522



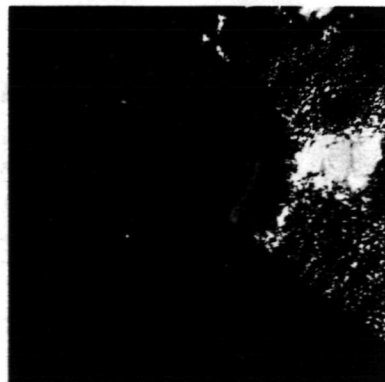
AST-9-523



AST-9-524



AST-9-525



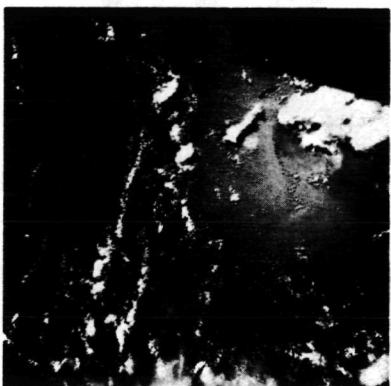
AST-9-526



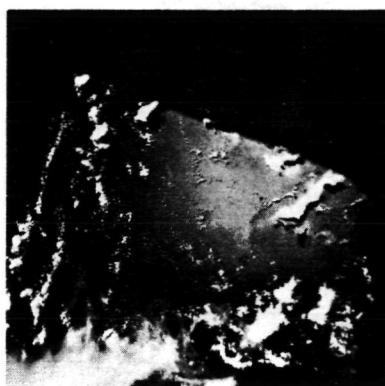
AST-9-527



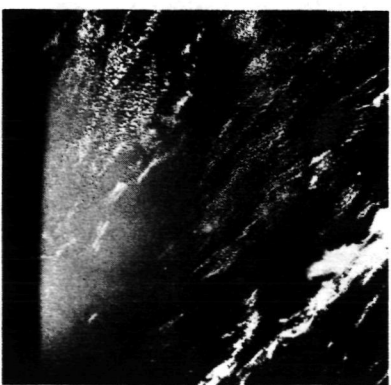
AST-9-528



AST-9-529



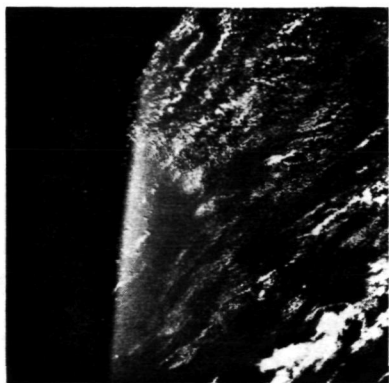
AST-9-530



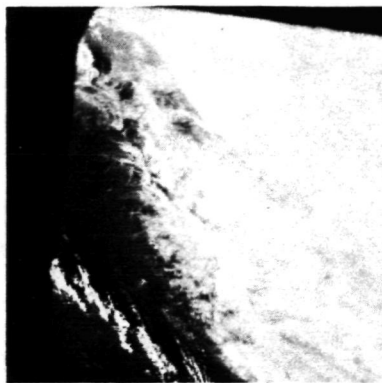
AST-9-531



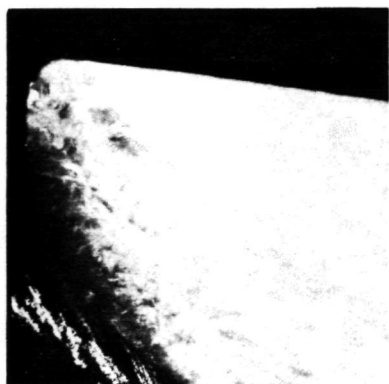
AST-9-532



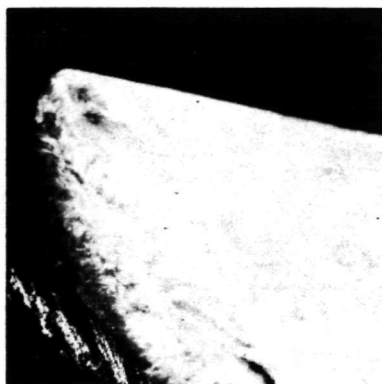
AST-9-533



AST-9-534



AST-9-535



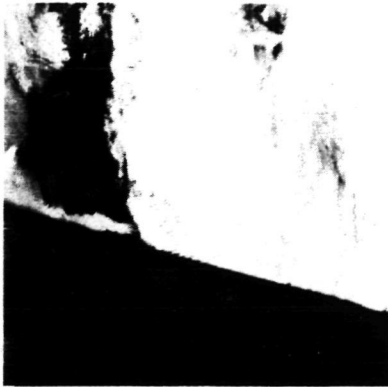
AST-9-536



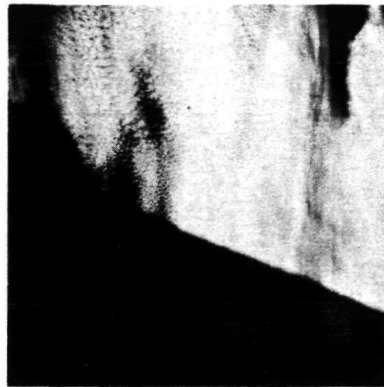
AST-9-537



AST-9-538



AST-9-539



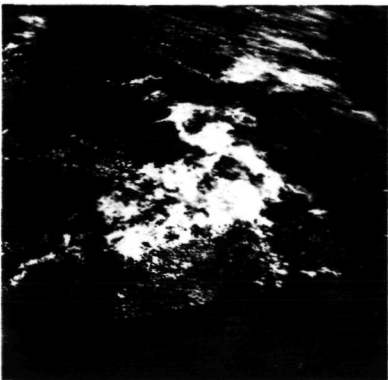
AST-9-540



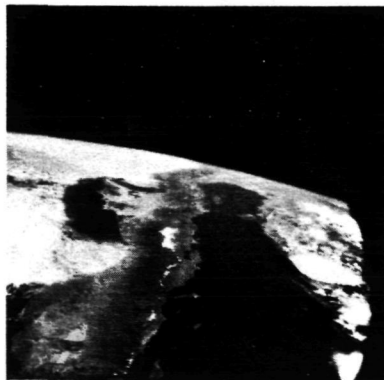
AST-9-541



AST-9-542



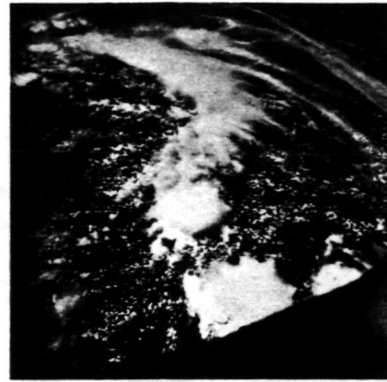
AST-9-543



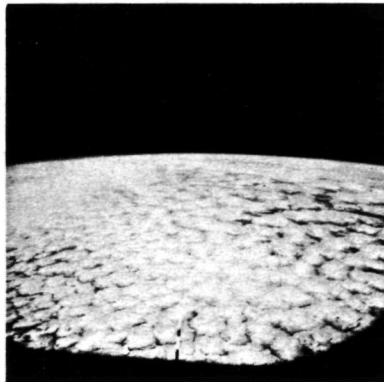
AST-9-544



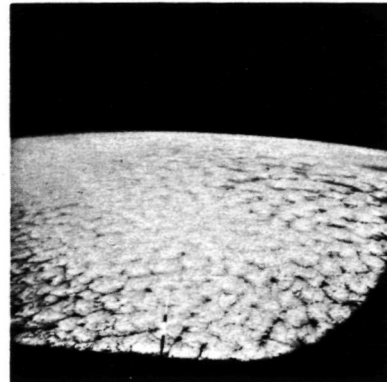
AST-9-545



AST-9-546



AST-9-547



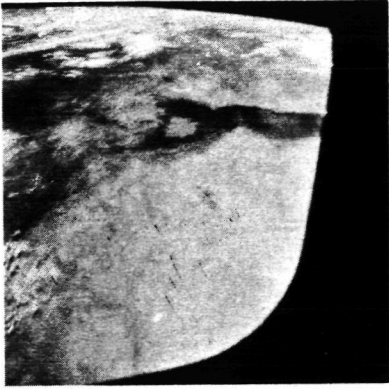
AST-9-548



AST-9-549



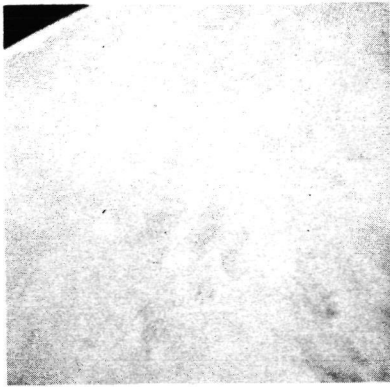
AST-9-550



AST-9-551



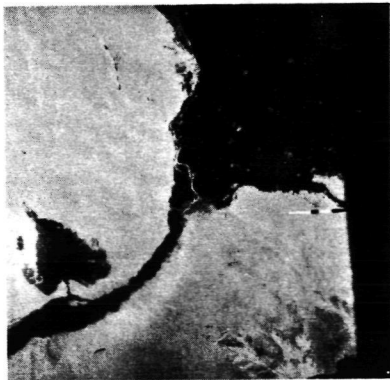
AST-9-552



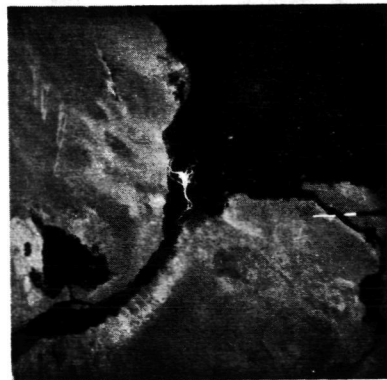
AST-9-553



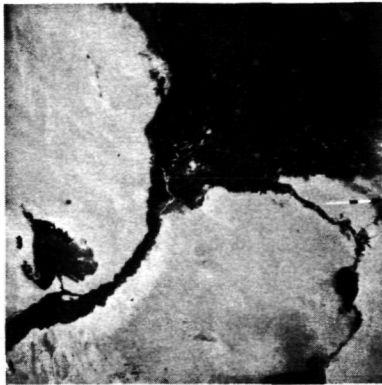
AST-9-554



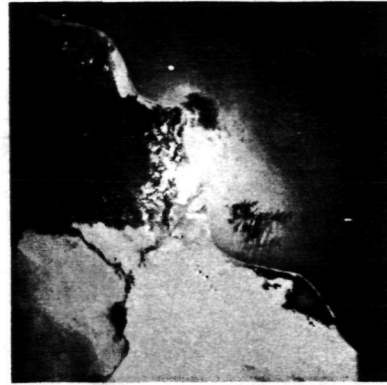
AST-9-555



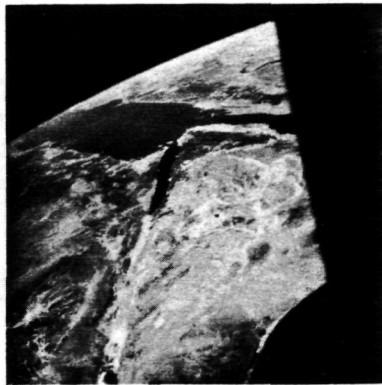
AST-9-556



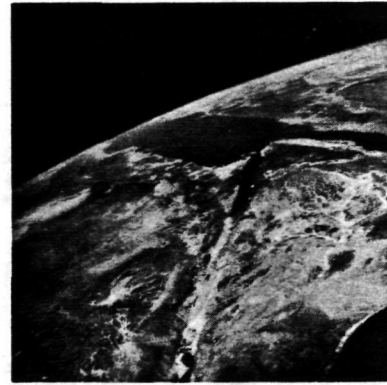
AST-9-557



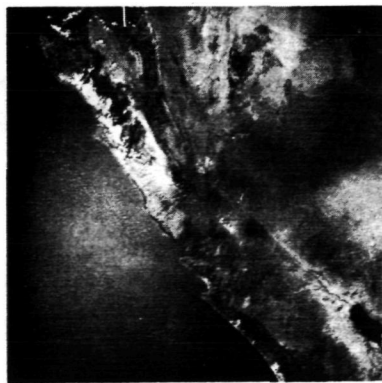
AST-9-558



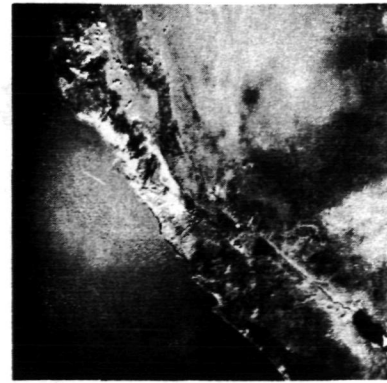
AST-9-559



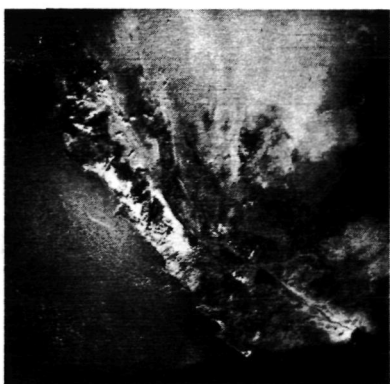
AST-9-560



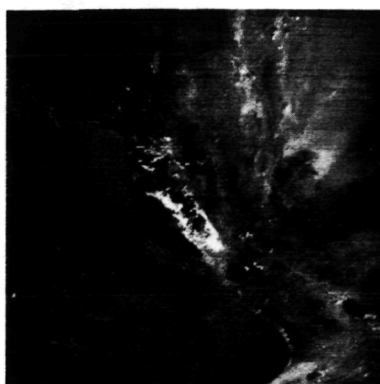
AST-9-561



AST-9-562



AST-9-563



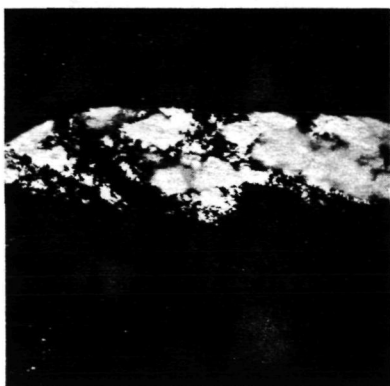
AST-9-564



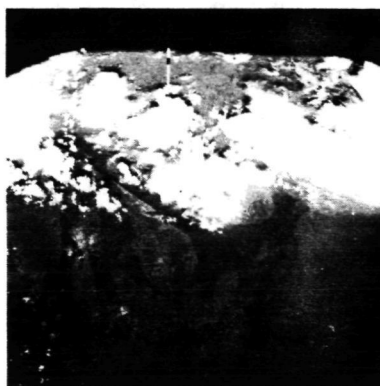
AST-9-565



AST-9-566



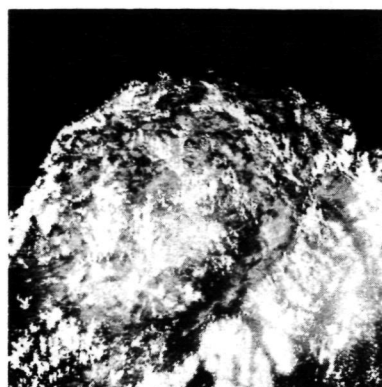
AST-9-567



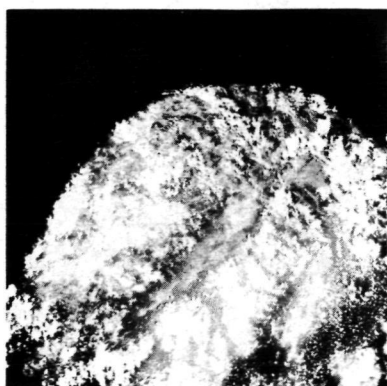
AST-9-568



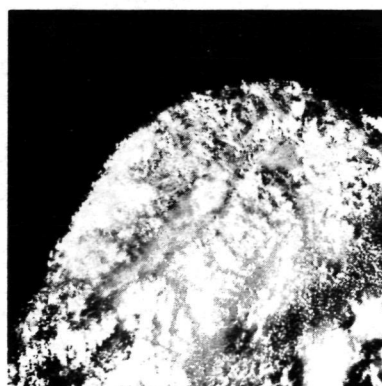
AST-9-569



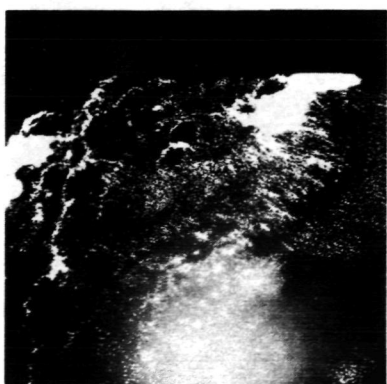
AST-13-789



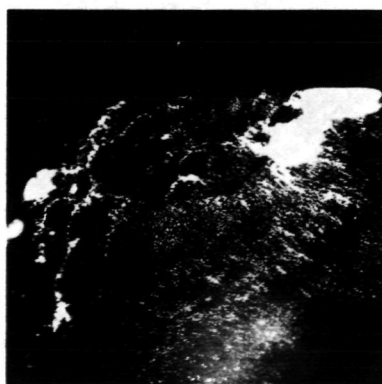
AST-13-790



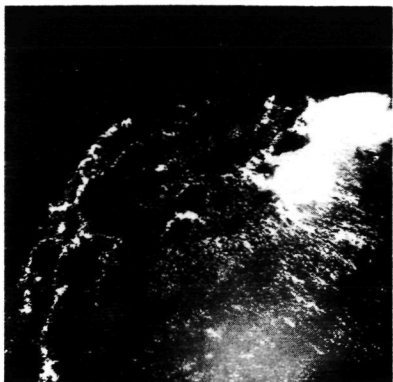
AST-13-791



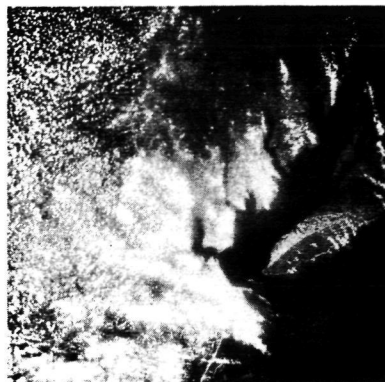
AST-13-792



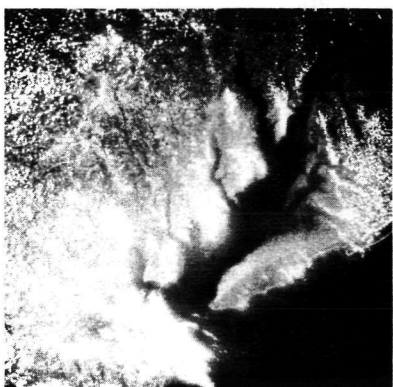
AST-13-795



AST-13-794



AST-13-795



AST-13-796



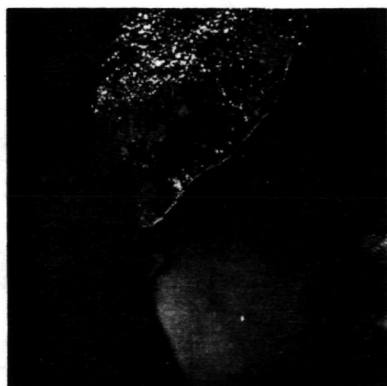
AST-13-797



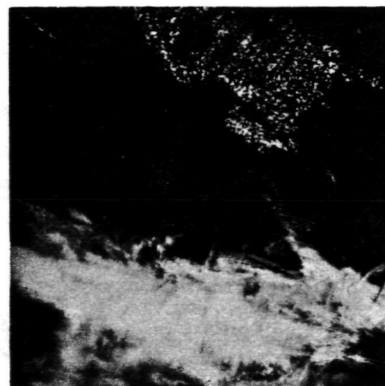
AST-13-798



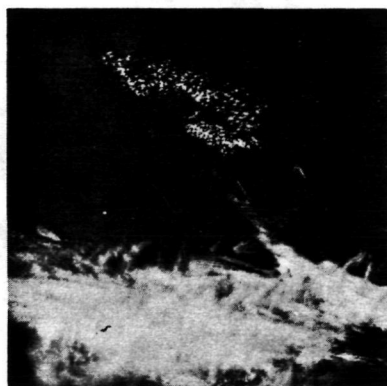
AST-13-799



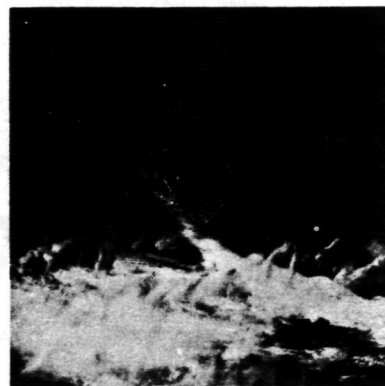
AST-13-800



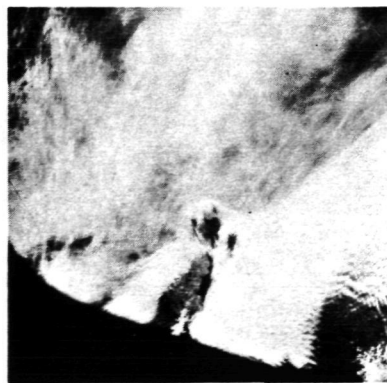
AST-13-801



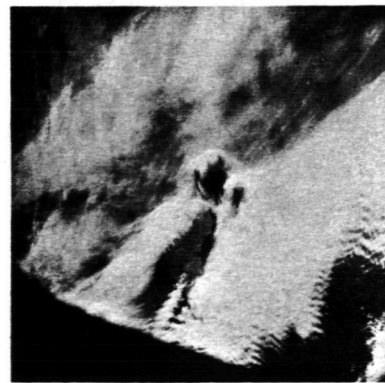
AST-13-802



AST-13-803



AST-13-804



AST-13-805



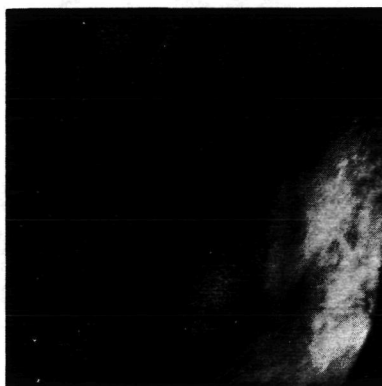
AST-13-806



AST-13-807



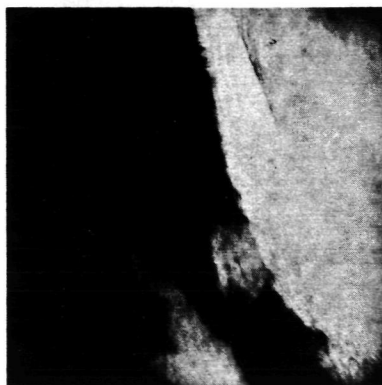
AST-13-808



AST-13-809



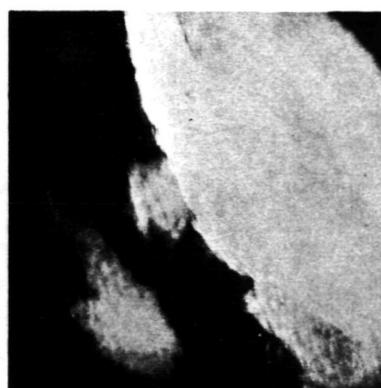
AST-13-810



AST-13-811



AST-13-812



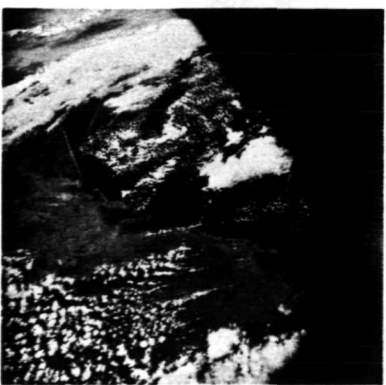
AST-13-813



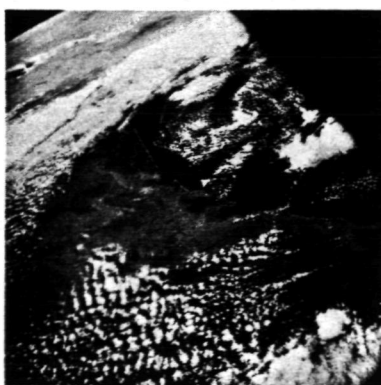
AST-13-815



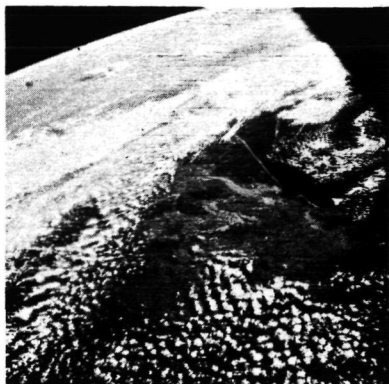
AST-13-816



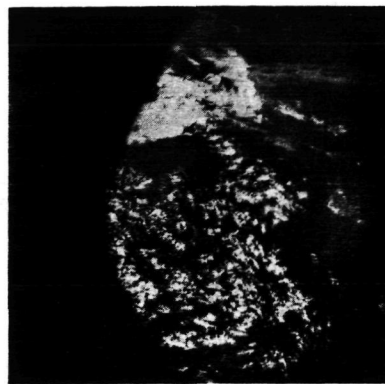
AST-13-818



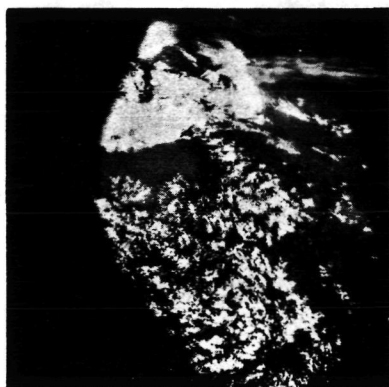
AST-13-819



AST-13-820



AST-13-821



AST-13-822



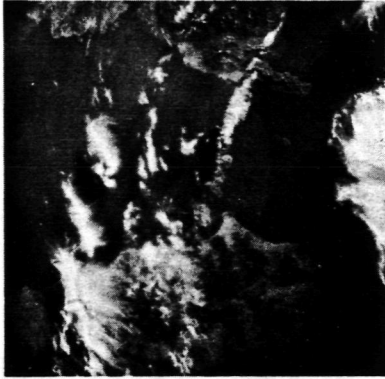
AST-13-823



AST-13-824



AST-13-825



AST-13-826



AST-13-827



AST-13-828



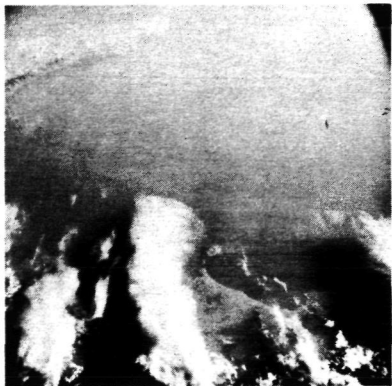
AST-13-829



AST-13-830



AST-13-831



AST-13-832



AST-13-833



AST-13-834



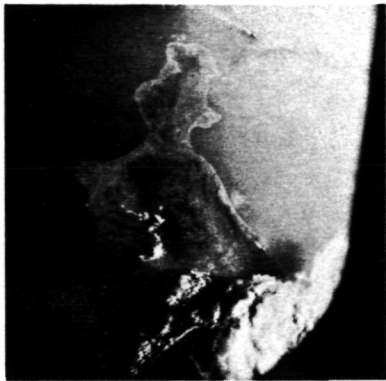
AST-13-835



AST-13-836



AST-13-837



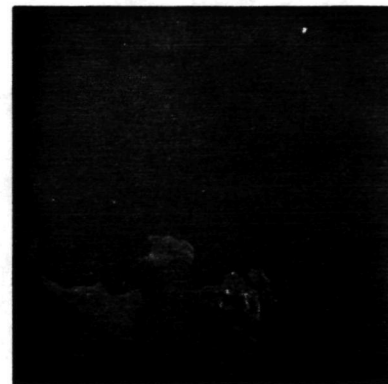
AST-13-838



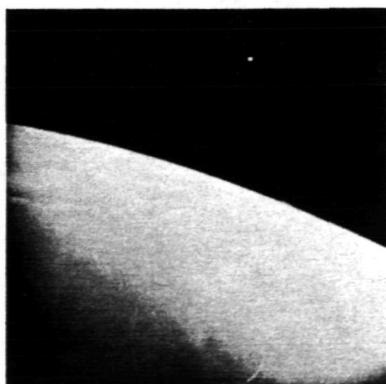
AST-13-839



AST-13-840



AST-13-841



AST-13-842



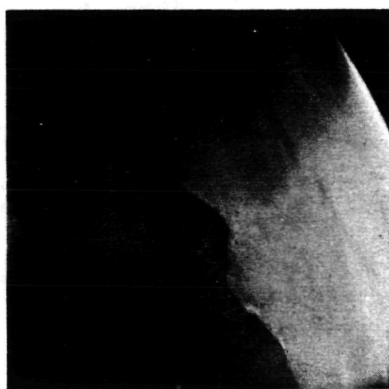
AST-13-843



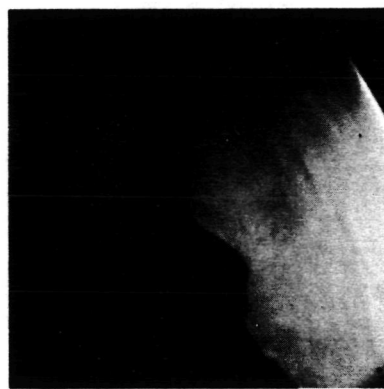
AST-13-844



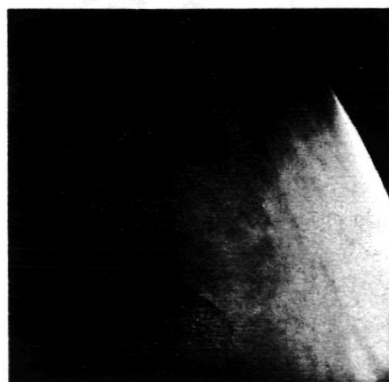
AST-13-845



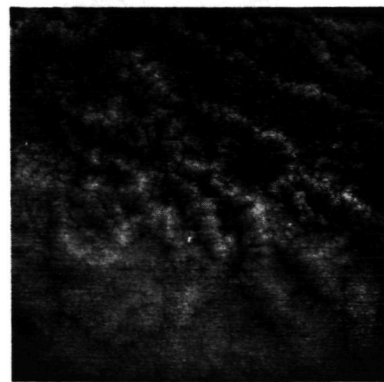
AST-13-846



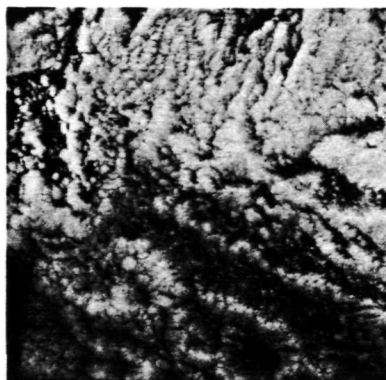
AST-13-847



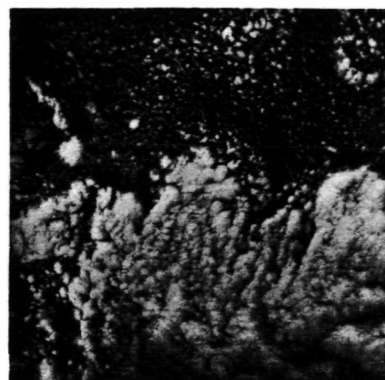
AST-13-848



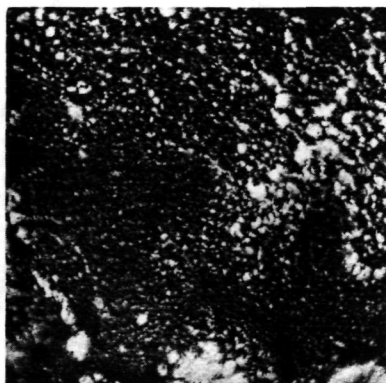
AST-14-860



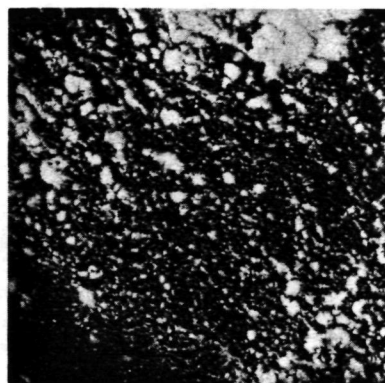
AST-14-861



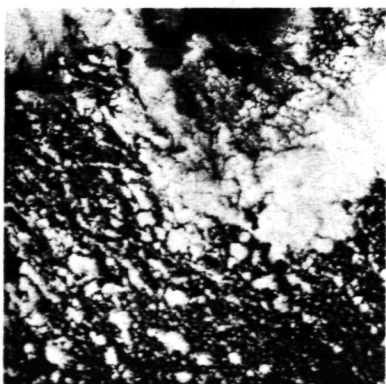
AST-14-862



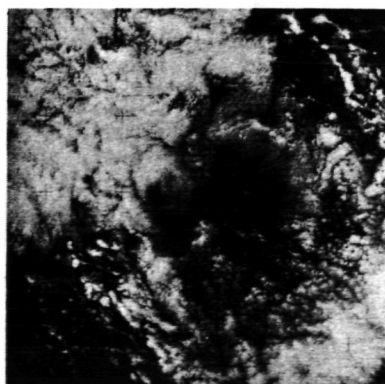
AST-14-863



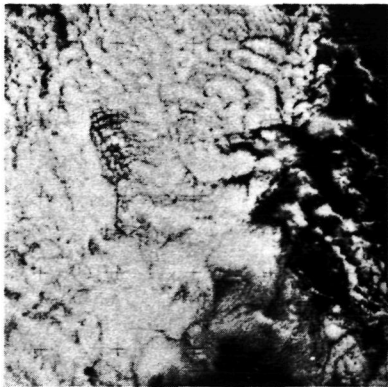
AST-14-864



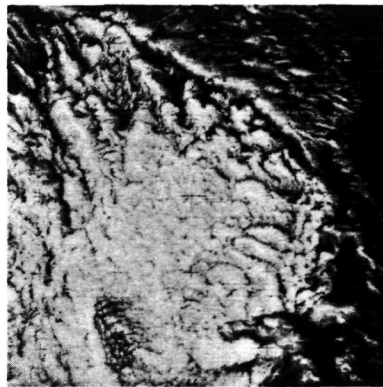
AST-14-865



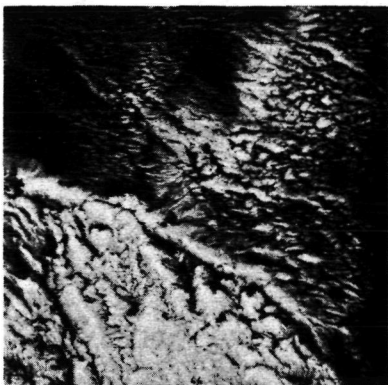
AST-14-866



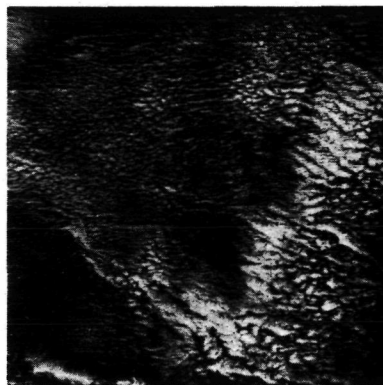
AST-14-867



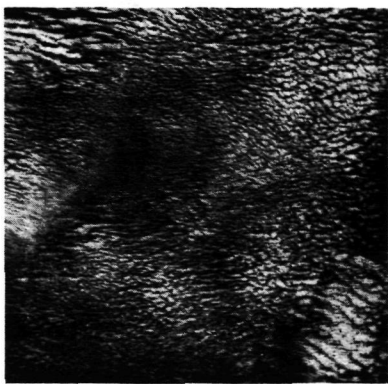
AST-14-868



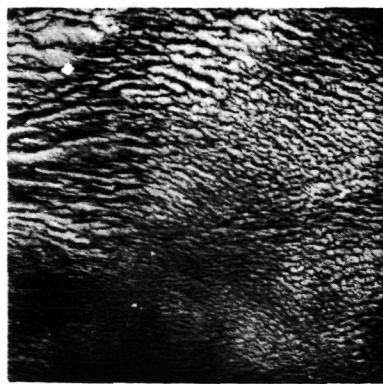
AST-14-869



AST-14-870



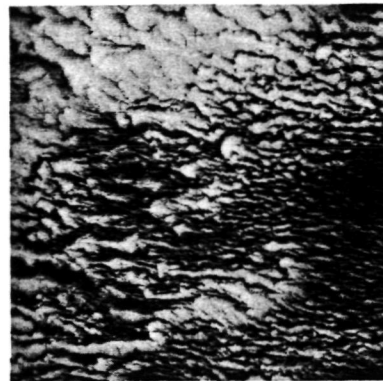
AST-14-871



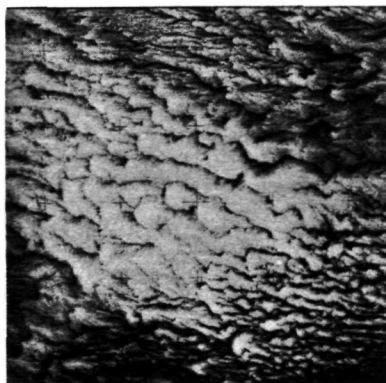
AST-14-872



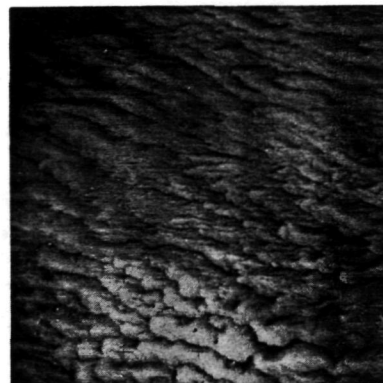
AST-14-873



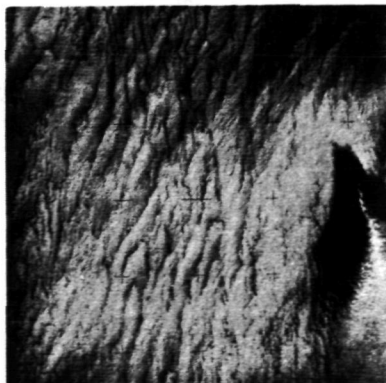
AST-14-874



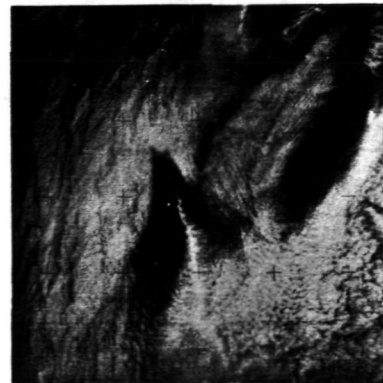
AST-14-875



AST-14-876



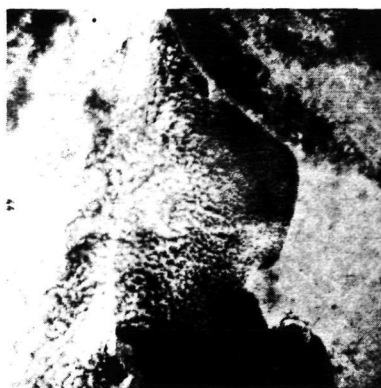
AST-14-877



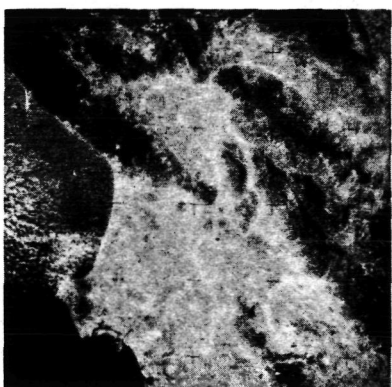
AST-14-878



AST-14-879



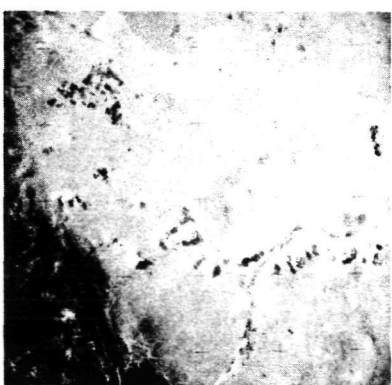
AST-14-880



AST-14-881



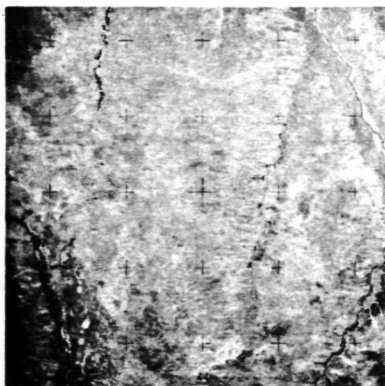
AST-14-882



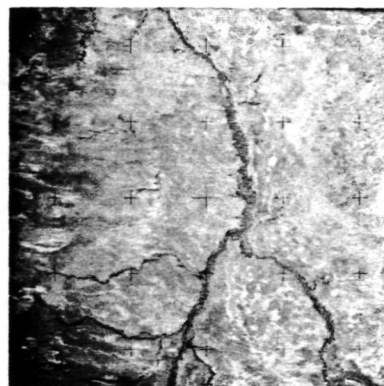
AST-14-883



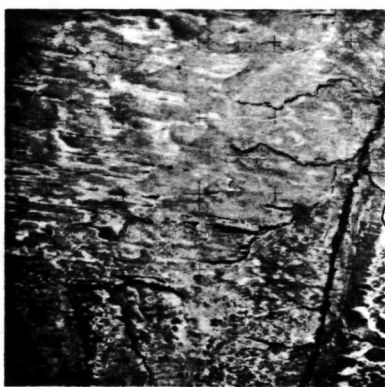
AST-14-884



AST-14-886



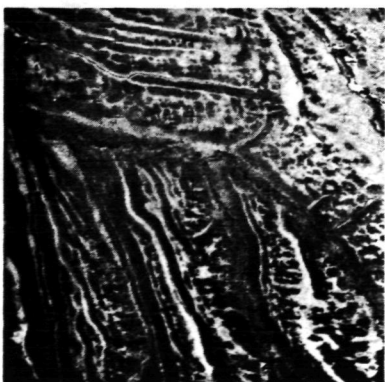
AST-14-887



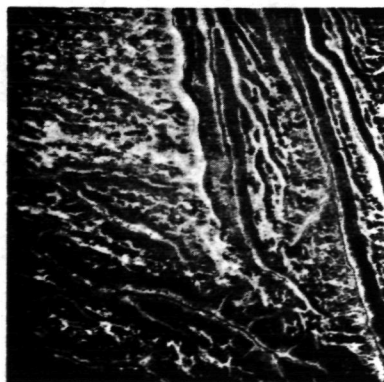
AST-14-888



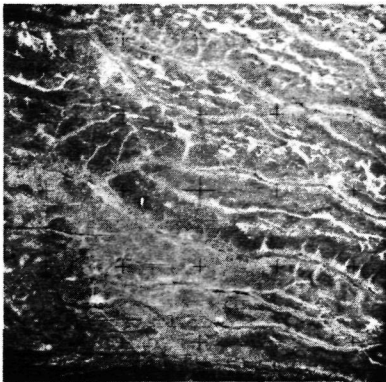
AST-14-889



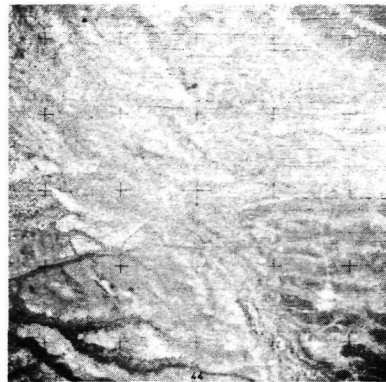
AST-14-890



AST-14-891



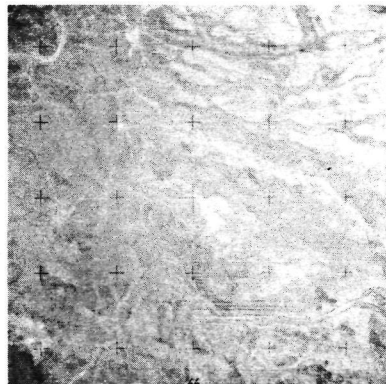
AST-14-892



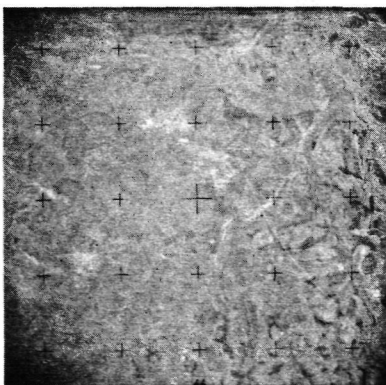
AST-14-893



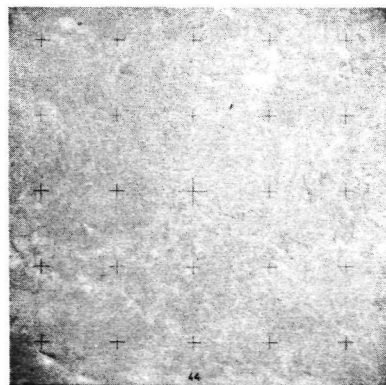
AST-14-894



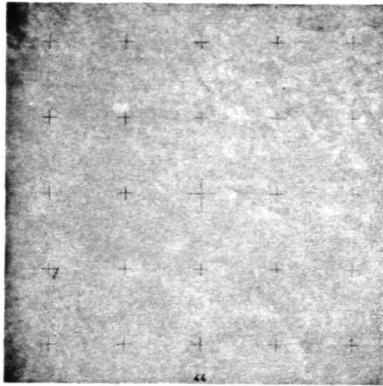
AST-14-895



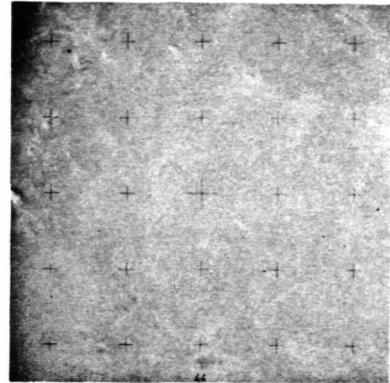
AST-14-896



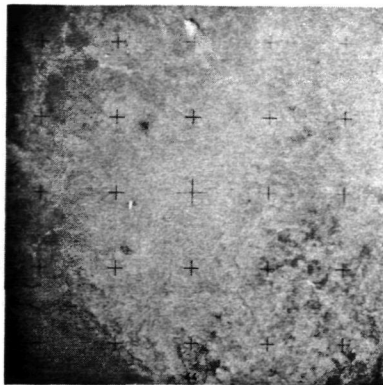
AST-14-897



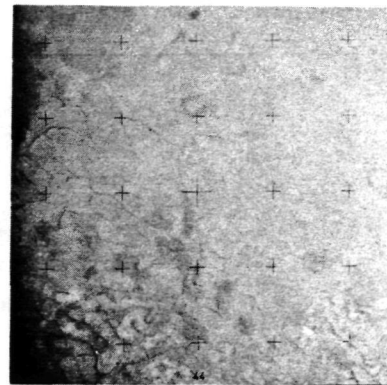
AST-14-898



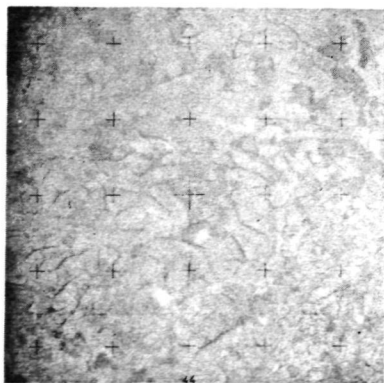
AST-14-899



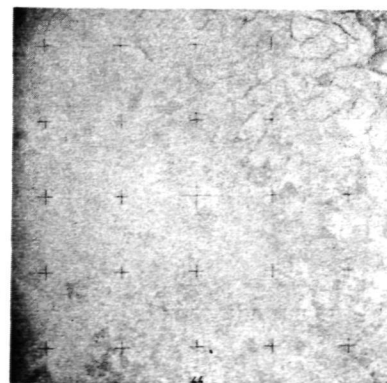
AST-14-900



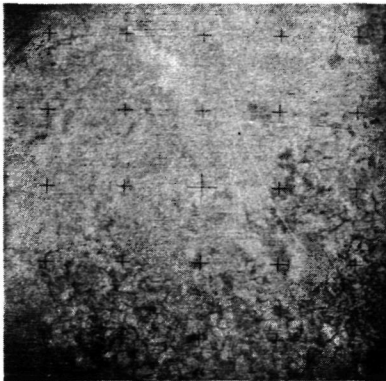
AST-14-901



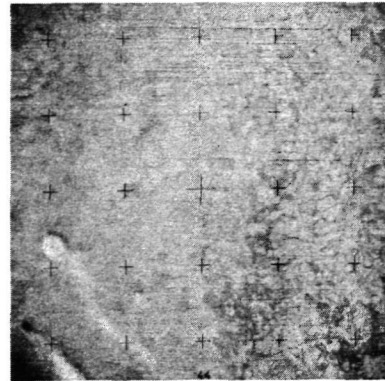
AST-14-902



AST-14-903



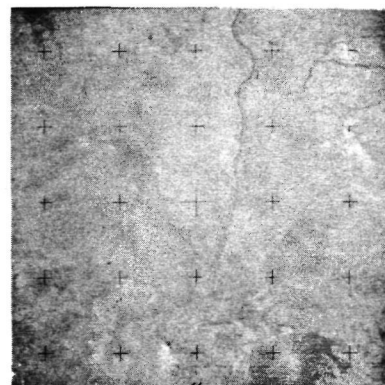
AST-14-904



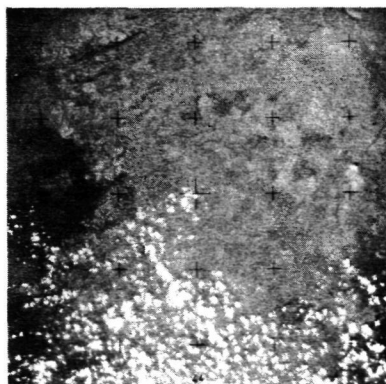
AST-14-905



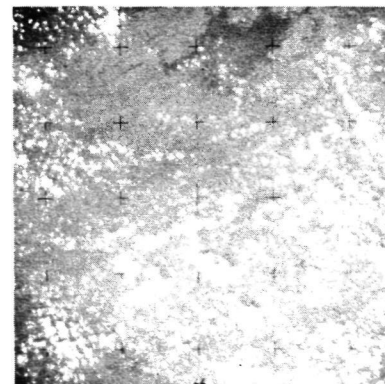
AST-14-906



AST-14-907



AST-14-908



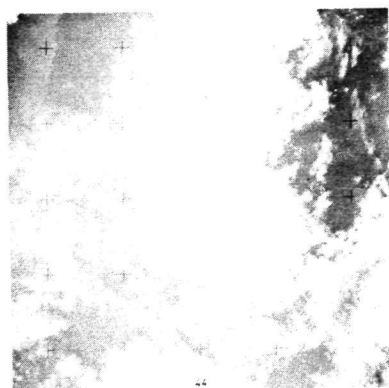
AST-14-909



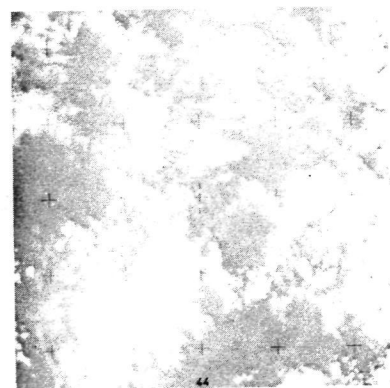
AST-14-910



AST-14-911



AST-14-912



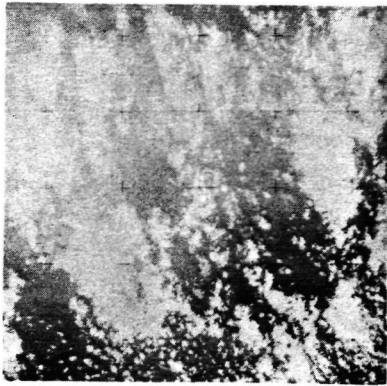
AST-14-913



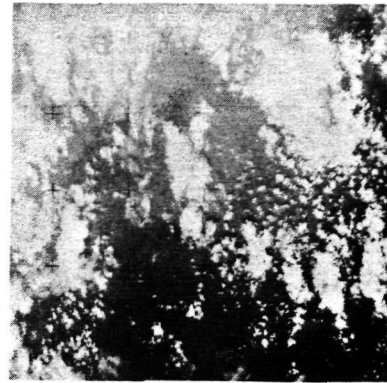
AST-14-914



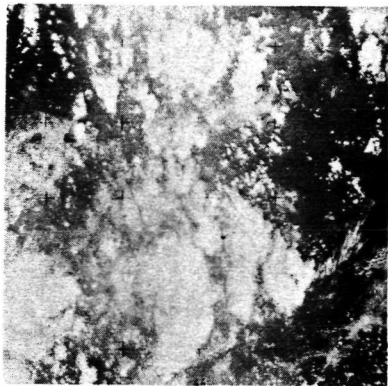
AST-14-915



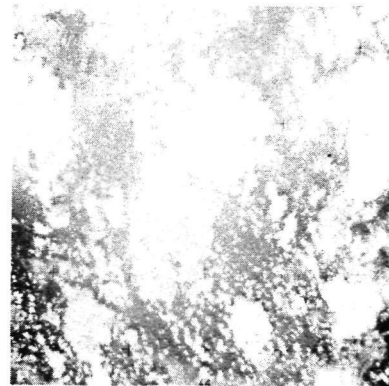
AST-14-916



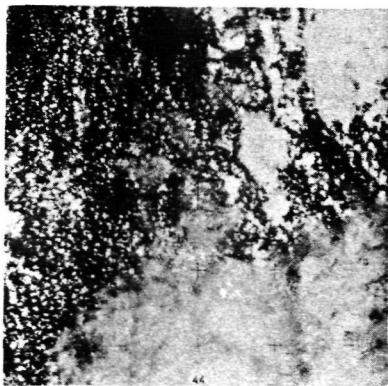
AST-14-917



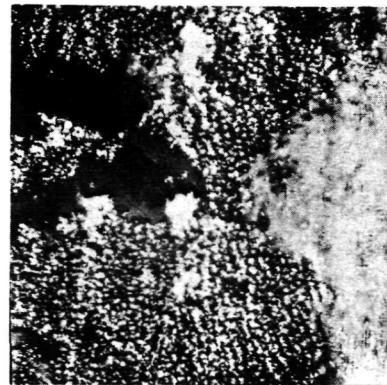
AST-14-918



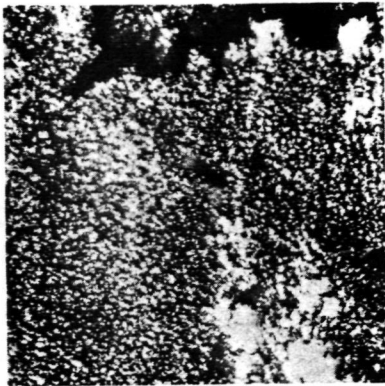
AST-14-919



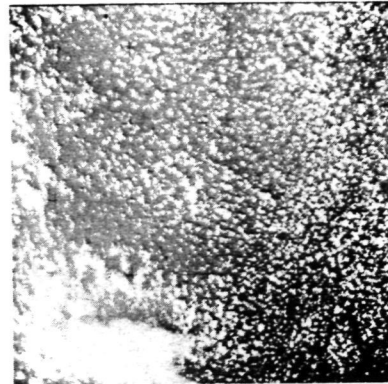
AST-14-920



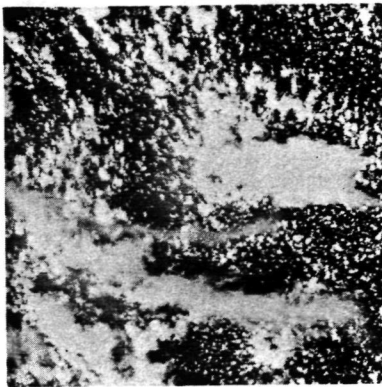
AST-14-921



AST-14-922



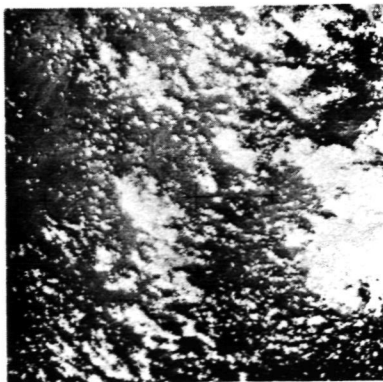
AST-14-923



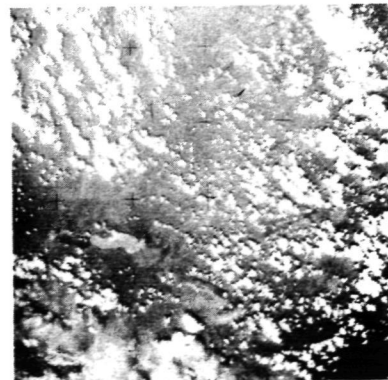
AST-14-924



AST-14-925



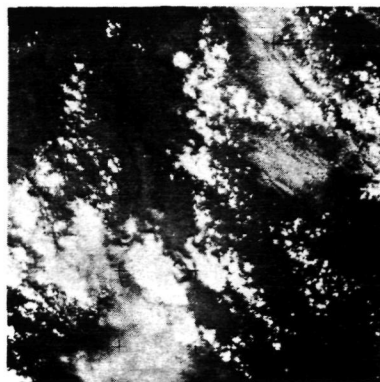
AST-14-926



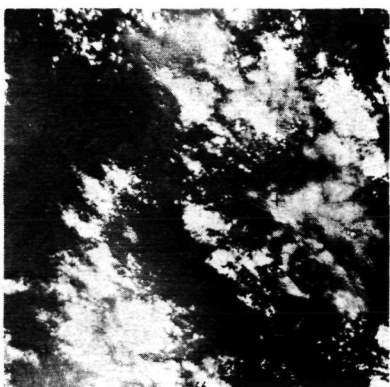
AST-14-927



AST-14-928



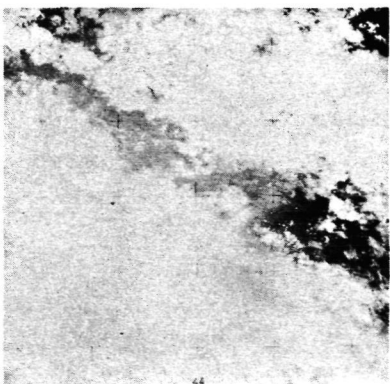
AST-14-929



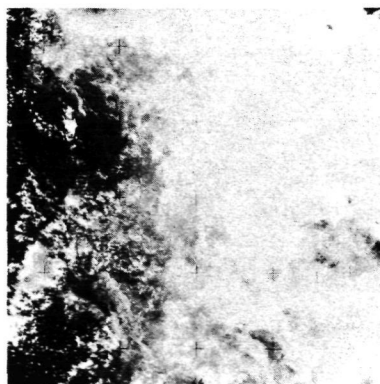
AST-14-930



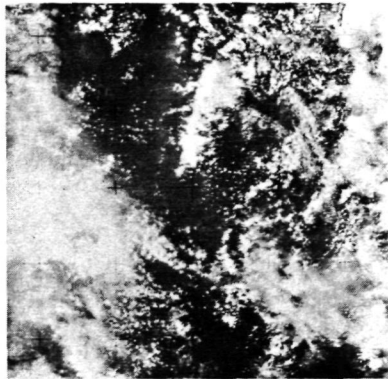
AST-14-931



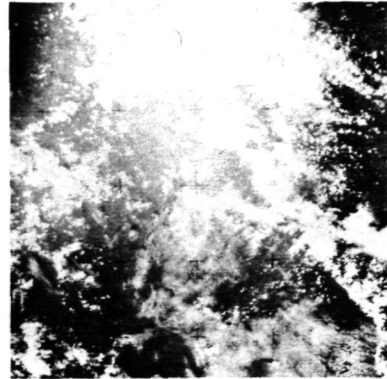
AST-14-932



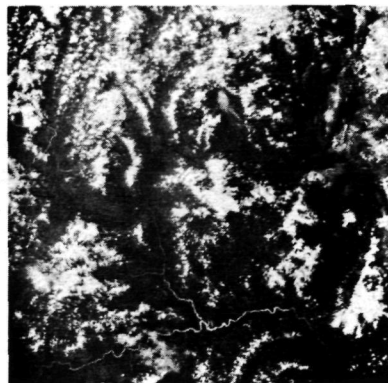
AST-14-933



AST-14-934



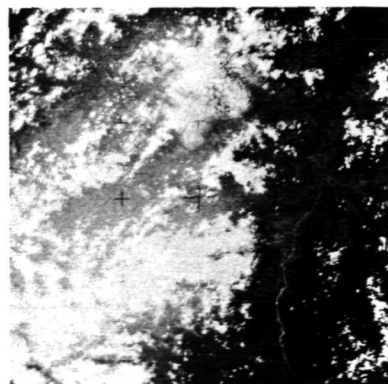
AST-14-935



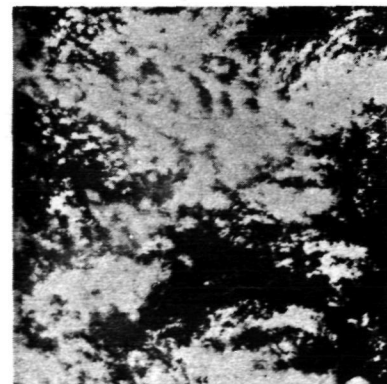
AST-14-936



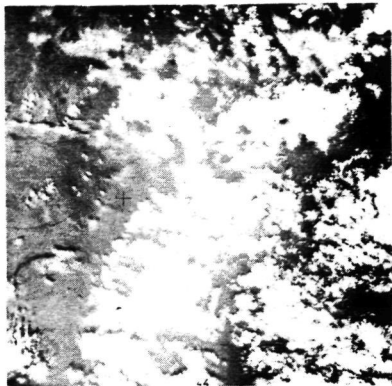
AST-14-937



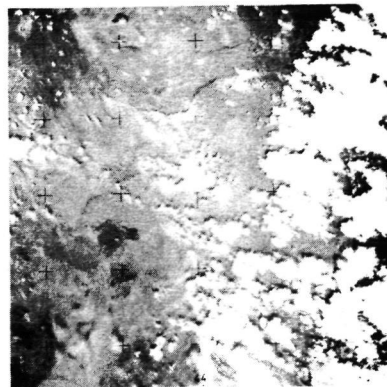
AST-14-938



AST-14-939



AST-14-940



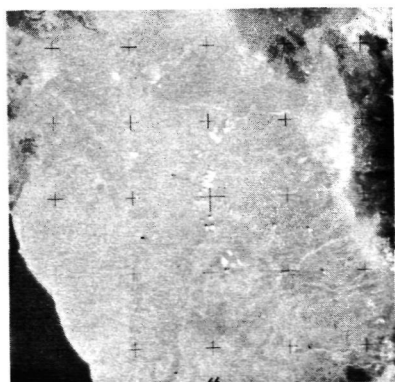
AST-14-941



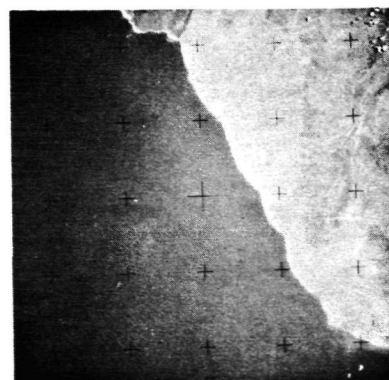
AST-14-942



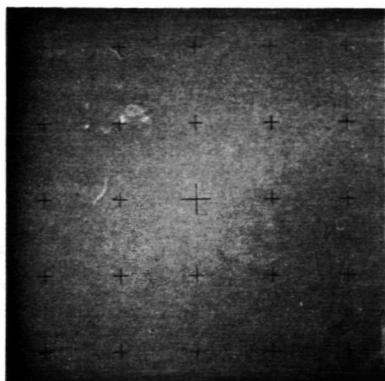
AST-14-943



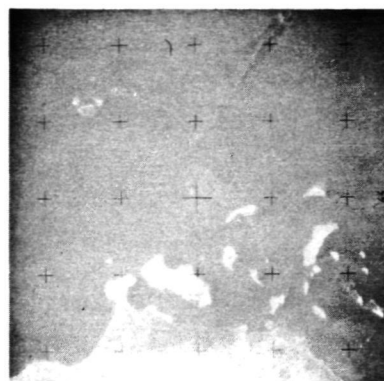
AST-14-944



AST-14-945



AST-14-946



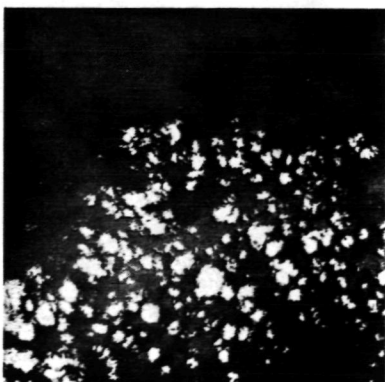
AST-14-947



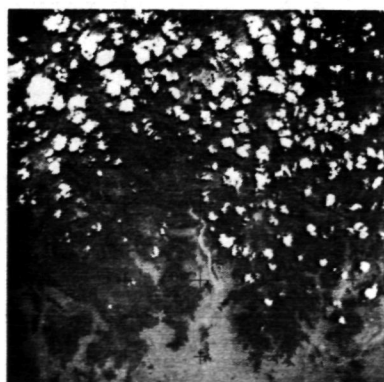
AST-14-948



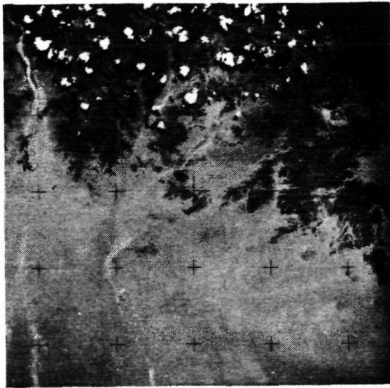
AST-14-949



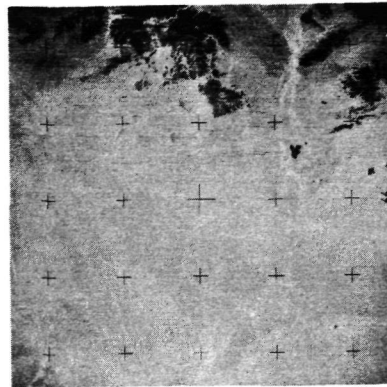
AST-14-950



AST-14-951



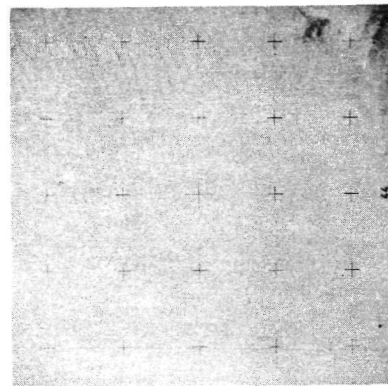
AST-14-952



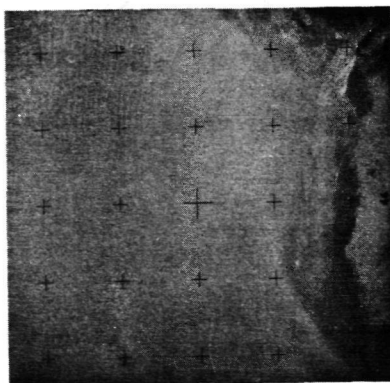
AST-14-953



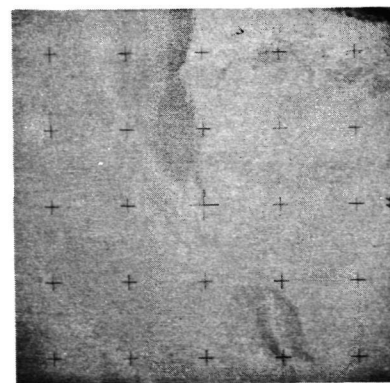
AST-14-954



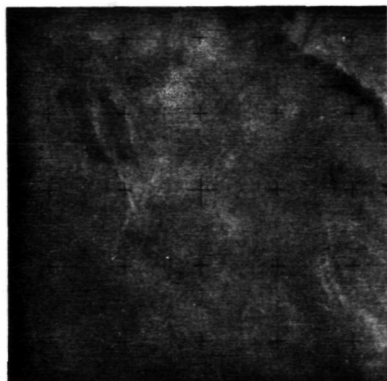
AST-14-955



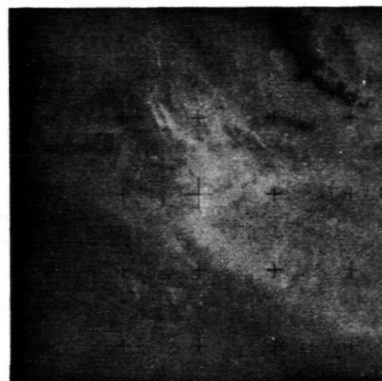
AST-14-956



AST-14-957



AST-14-958



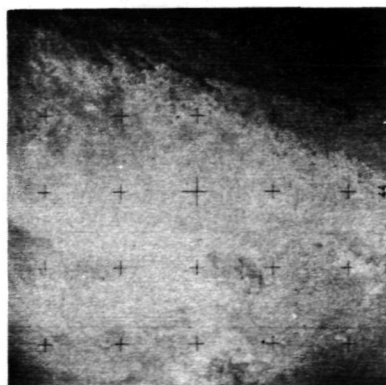
AST-14-959



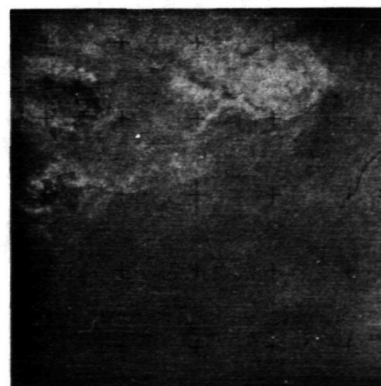
AST-14-960



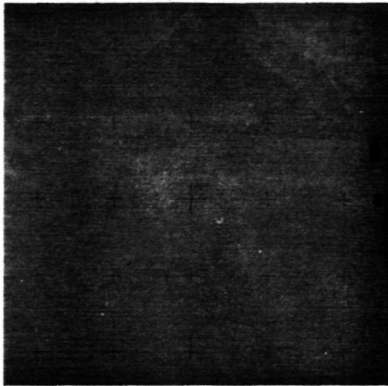
AST-14-961



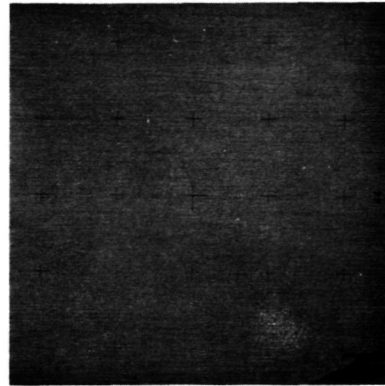
AST-14-962



AST-14-963



AST-14-964



AST-14-965



AST-14-966



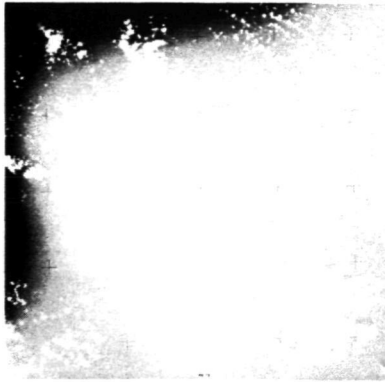
AST-14-967



AST-14-968



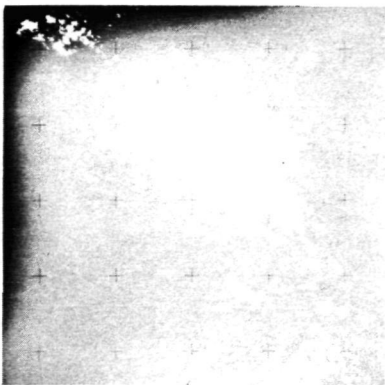
AST-15-1001



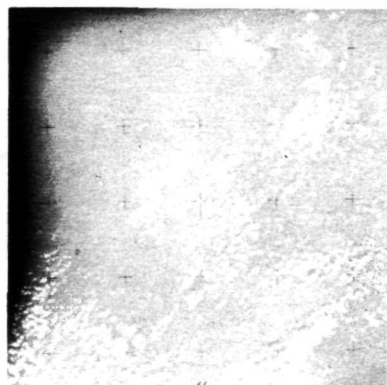
AST-15-1002



AST-15-1003



AST-15-1004



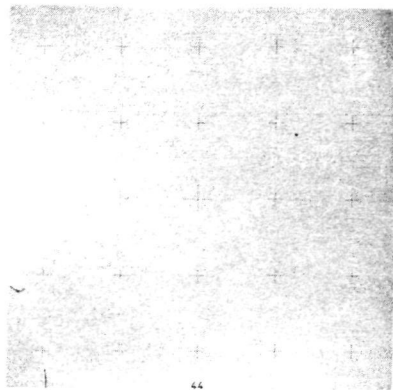
AST-15-1005



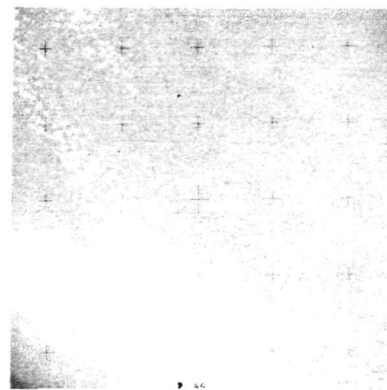
AST-15-1006



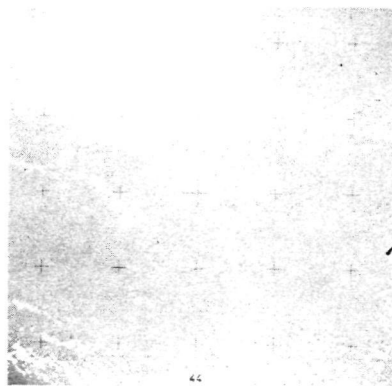
AST-15-1007



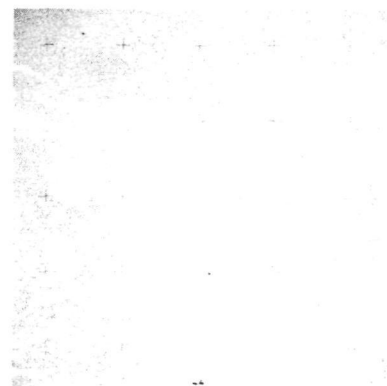
AST-15-1008



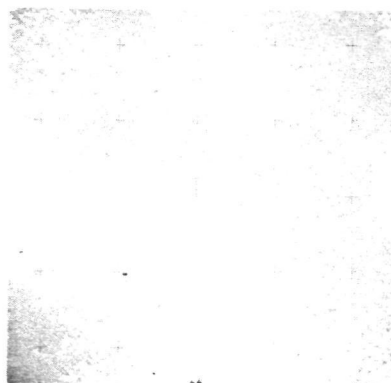
AST-15-1009



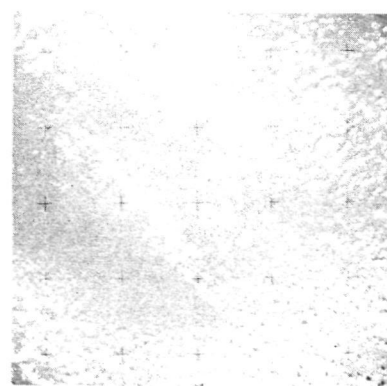
AST-15-1010



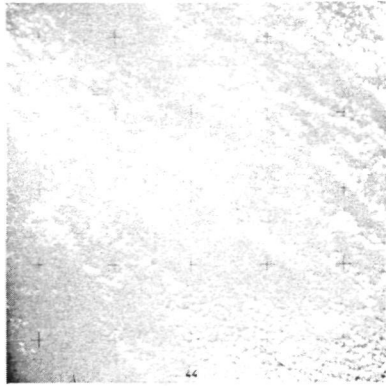
AST-15-1011



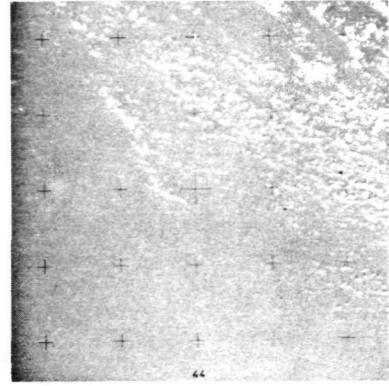
AST-15-1012



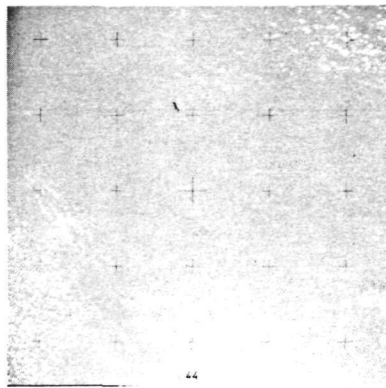
AST-15-1013



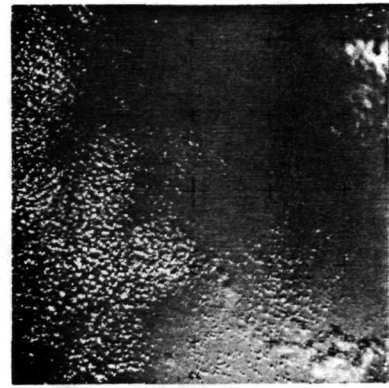
AST-15-1014



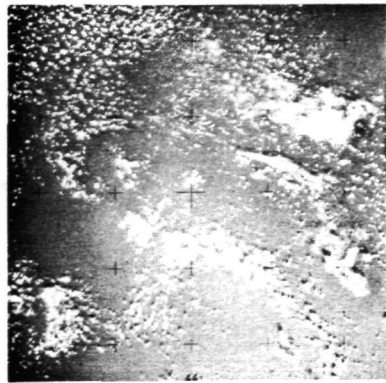
AST-15-1015



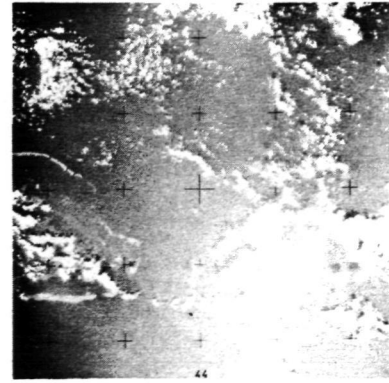
AST-15-1016



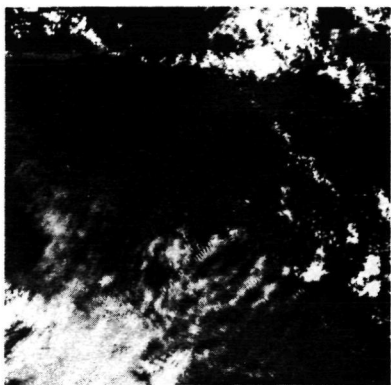
AST-15-1017



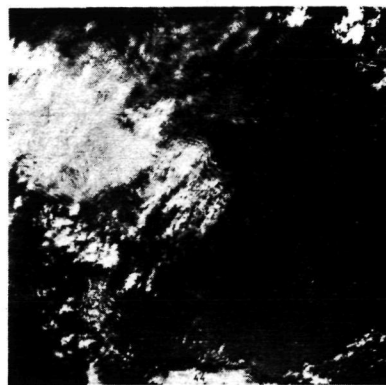
AST-15-1018



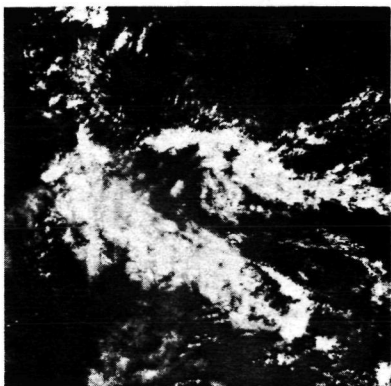
AST-15-1019



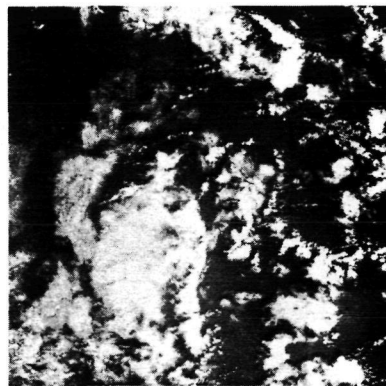
AST-15-1020



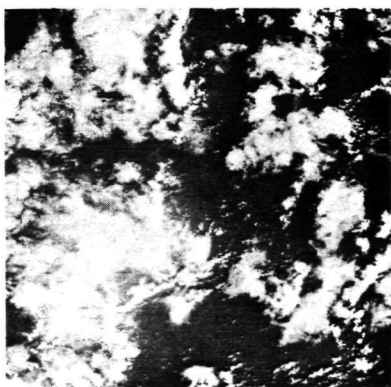
AST-15-1021



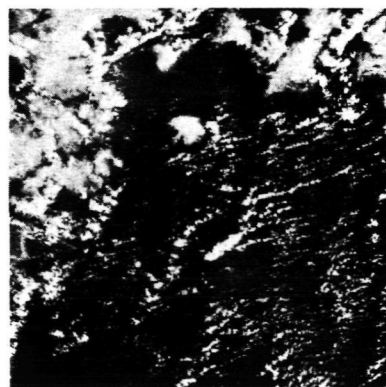
AST-15-1022



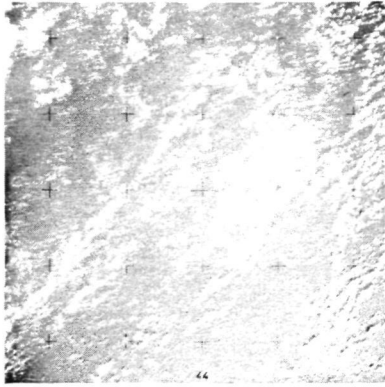
AST-15-1023



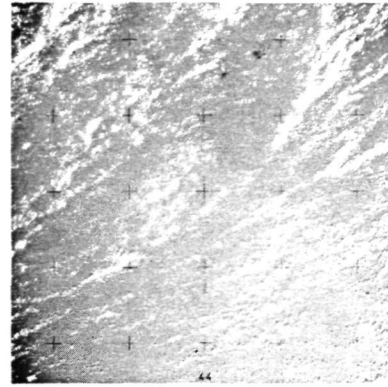
AST-15-1024



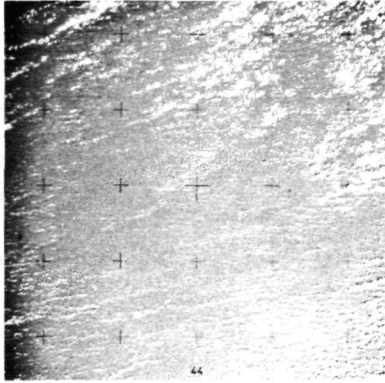
AST-15-1025



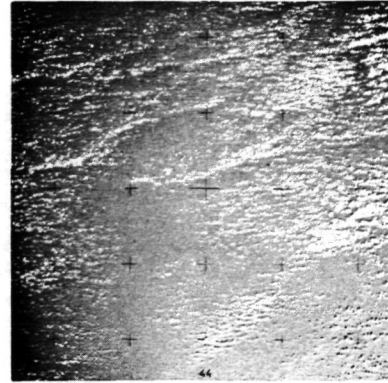
AST-15-1026



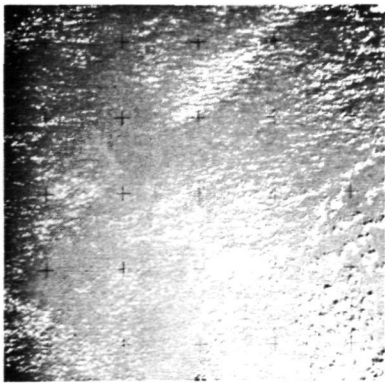
AST-15-1027



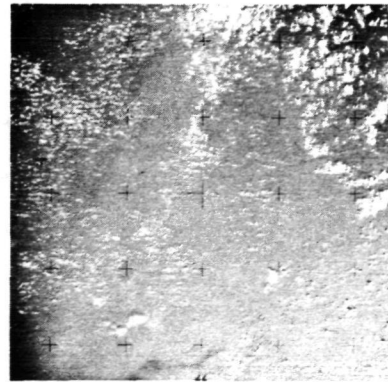
AST-15-1028



AST-15-1029



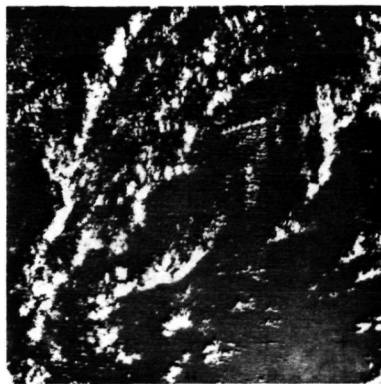
AST-15-1030



AST-15-1031



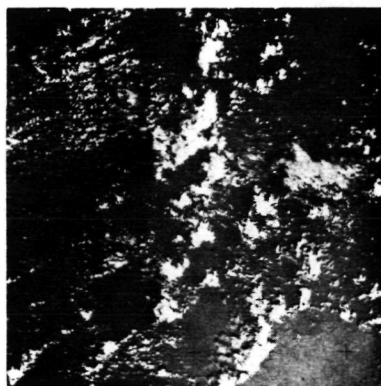
AST-15-1032



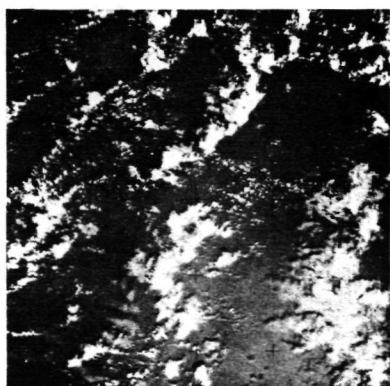
AST-15-1033



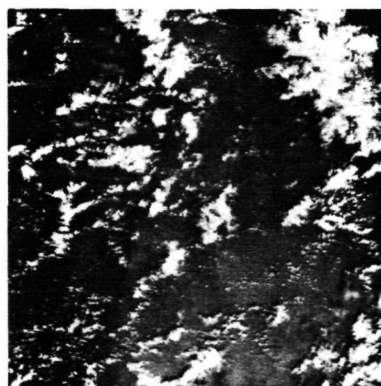
AST-15-1034



AST-15-1035



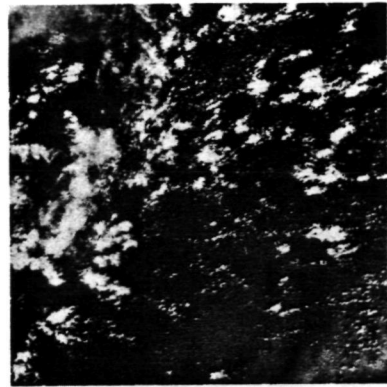
AST-15 1036



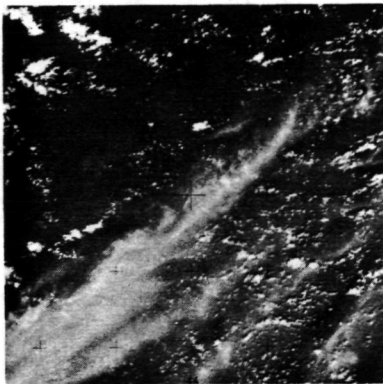
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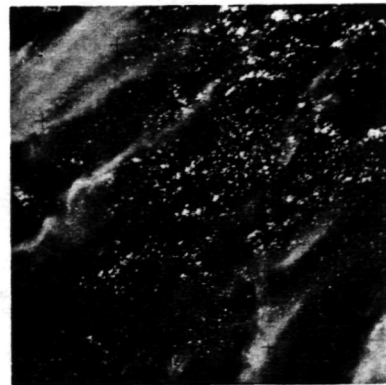
AST-15-1038



AST-15-1039



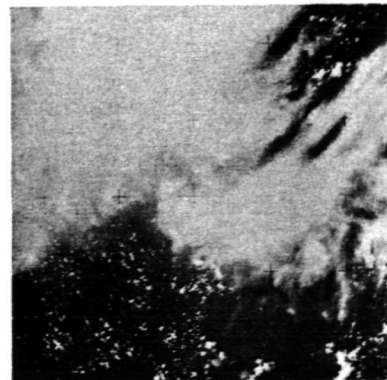
AST-15-1040



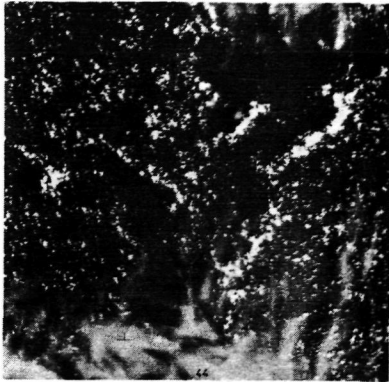
AST-15-1041



AST-15-1042



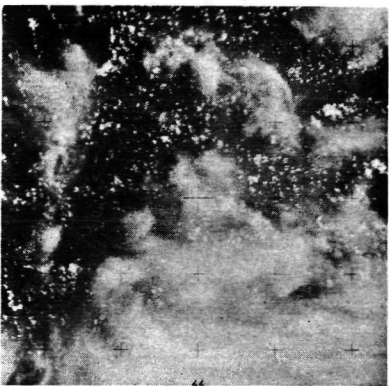
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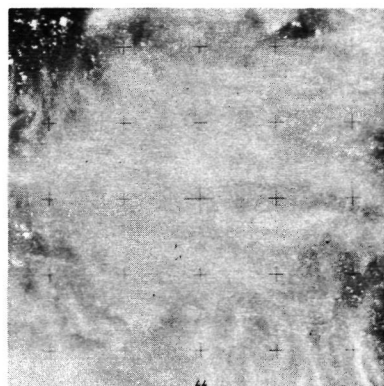
AST-15-1044



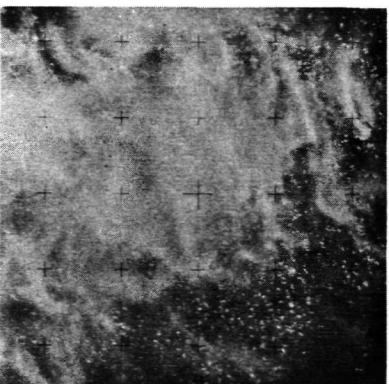
AST-15-1045



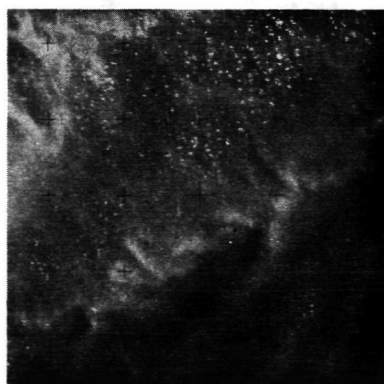
AST-15-1046



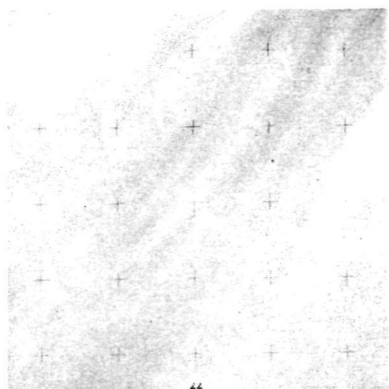
AST-15-1047



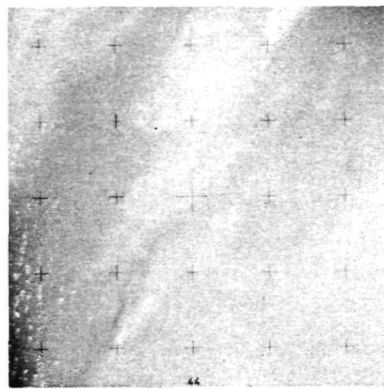
AST-15-1048



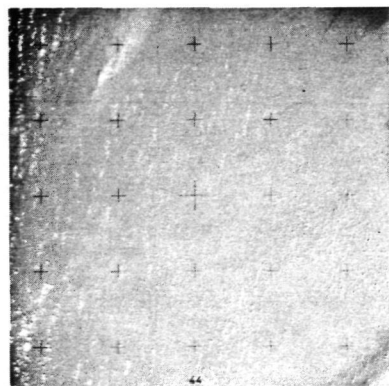
AST-15-1049



AST-15-1050



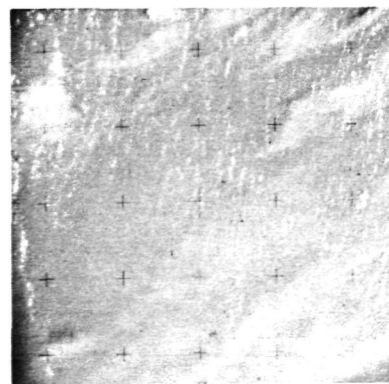
AST-15-1051



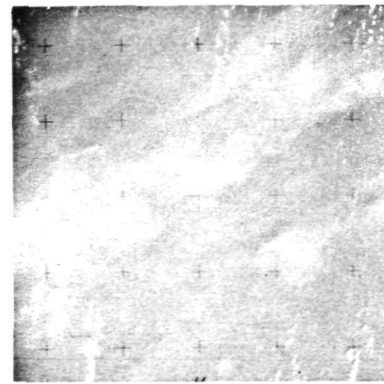
AST-15-1052



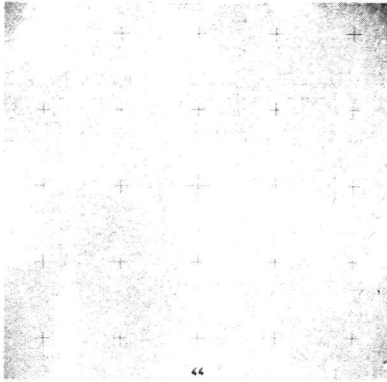
AST-15-1053



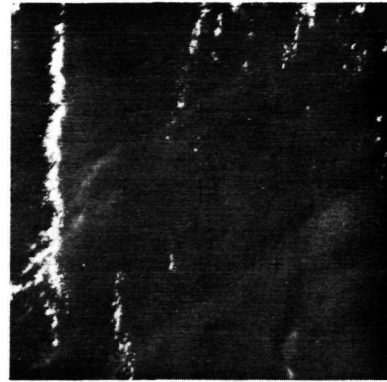
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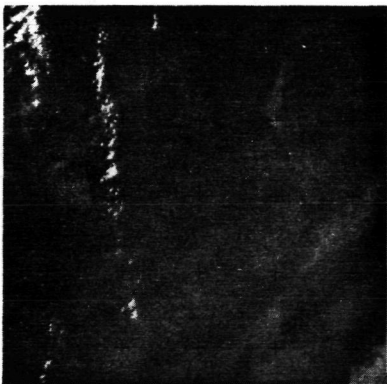
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AST-15-1056



AST-15-1057



AST-15-1058



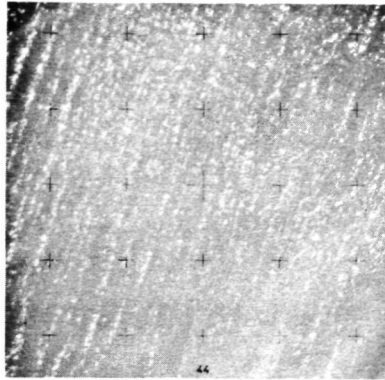
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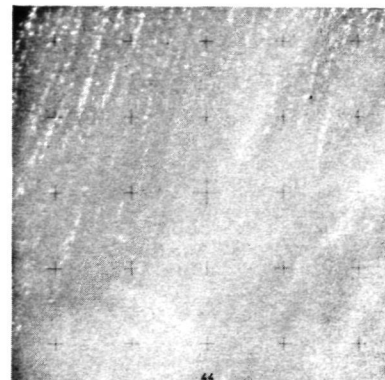
AST-15 1060



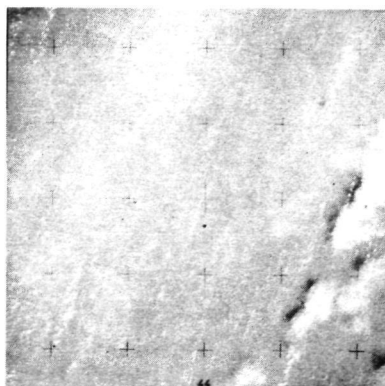
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AST-15-1062



AST-15-1063



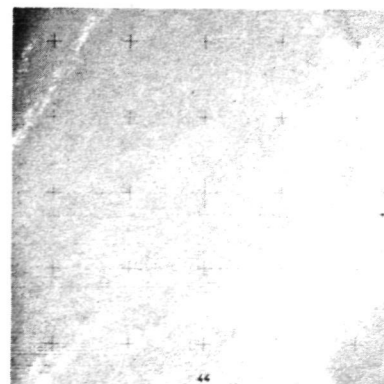
AST-15-1064



AST-15-1065



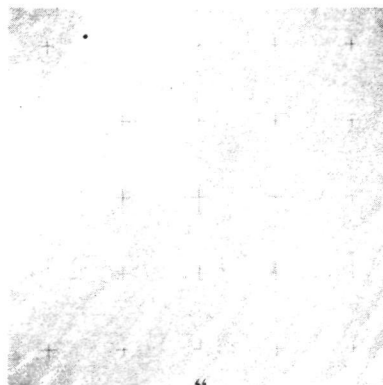
AST-15-1066



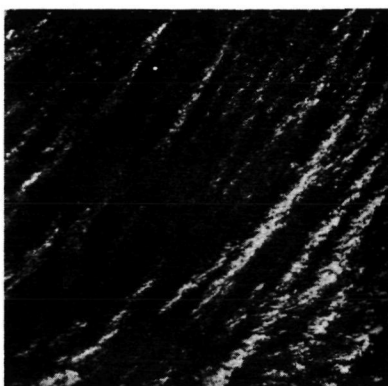
AST-15-1067



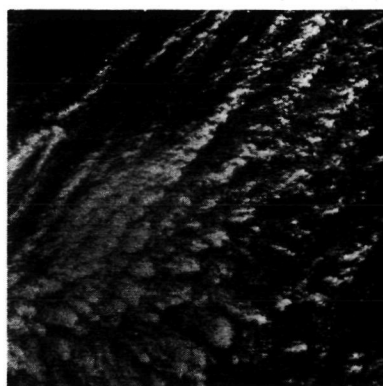
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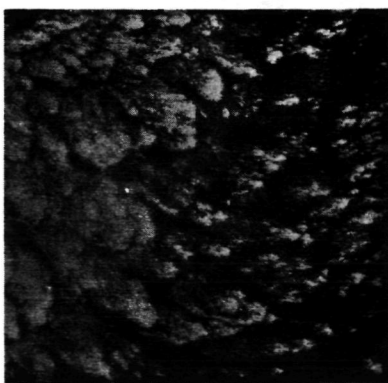
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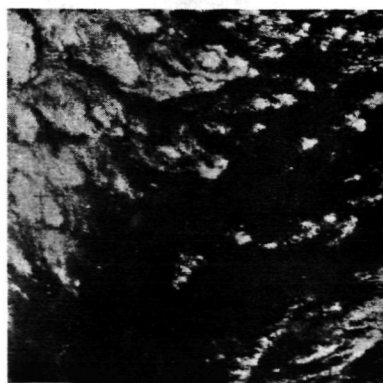
AST-15-1070



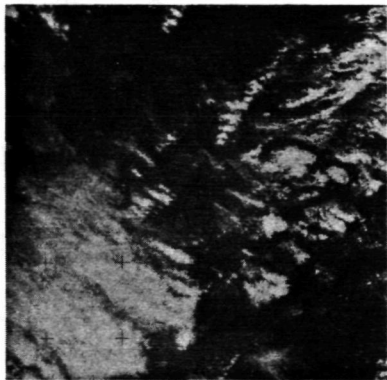
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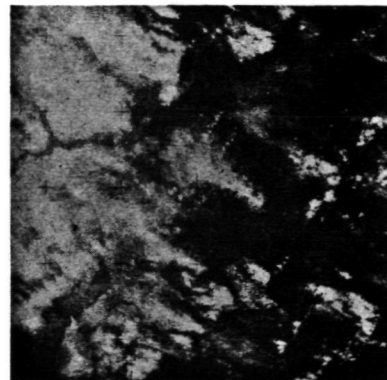
AST-15-1072



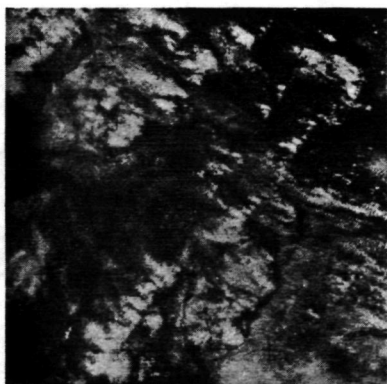
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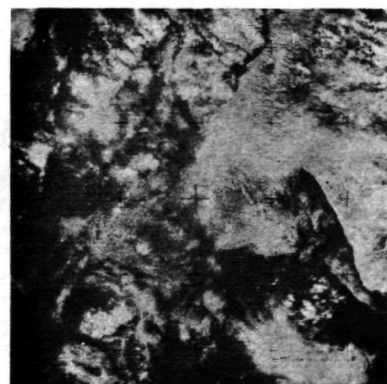
AST-15-1074



AST-15-1075



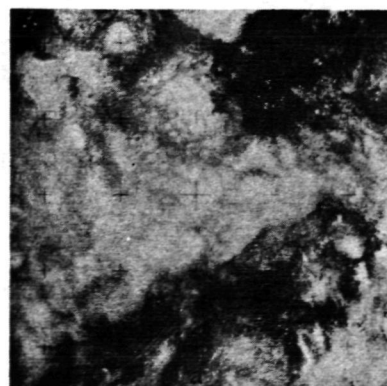
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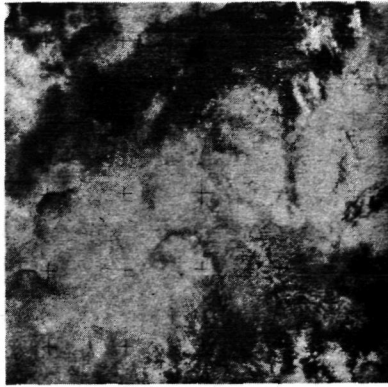
AST-15-1077



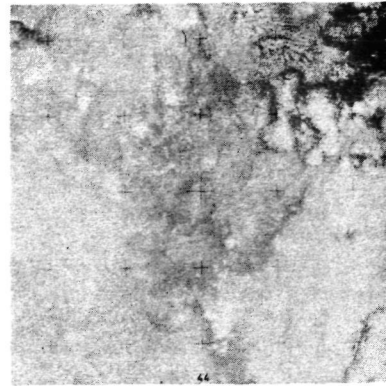
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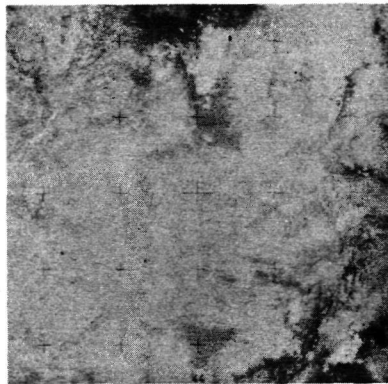
AST-15-1079



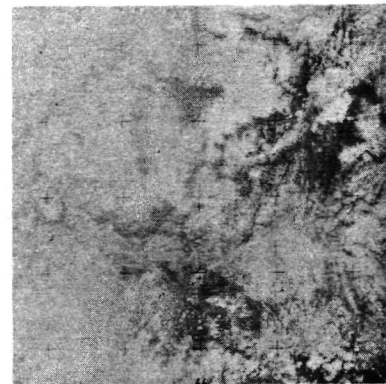
AST-15-1080



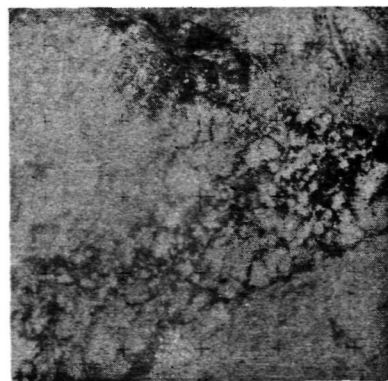
AST-15-1081



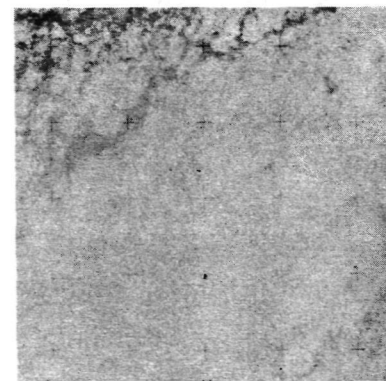
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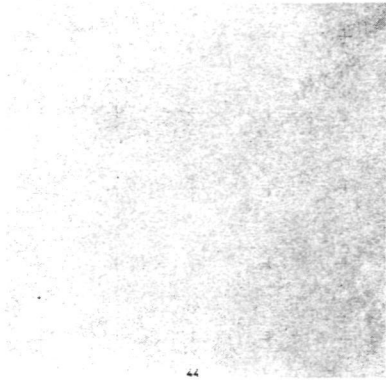
AST-15-1083



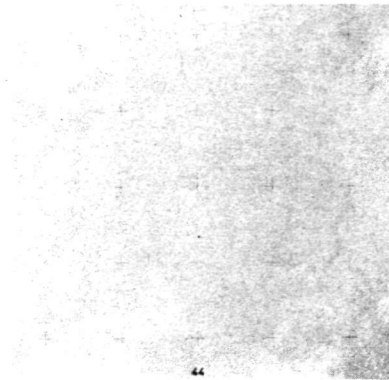
AST-15-1084



AST-15 1085



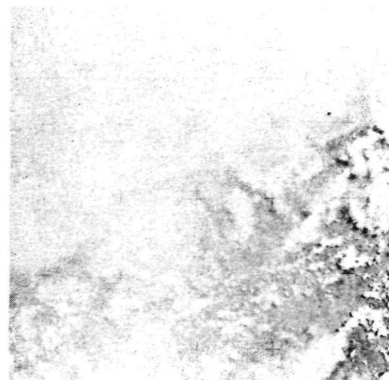
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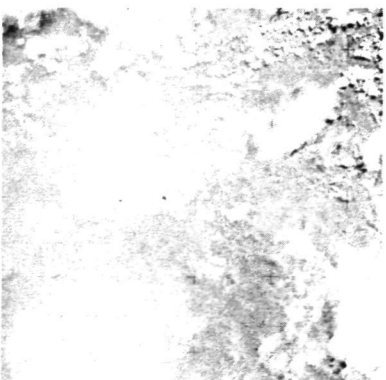
AST-15-1087



AST-15-1088



AST-15-1089



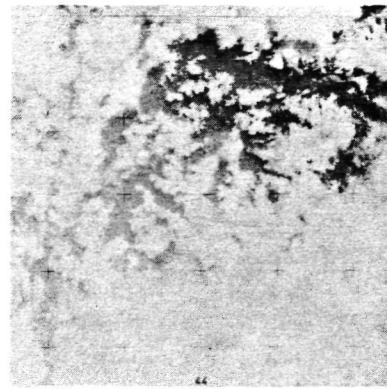
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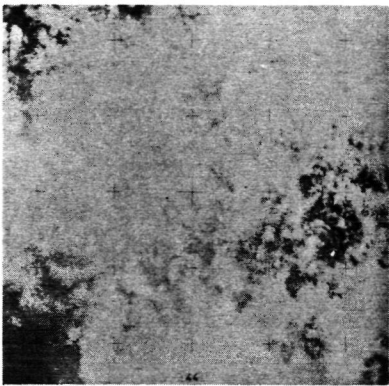
AST-15-1100



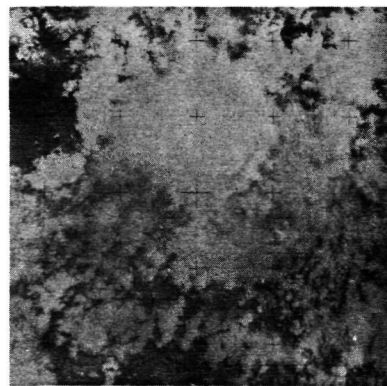
AST-15-1101



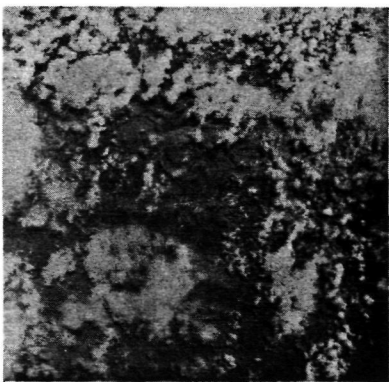
AST-15-1102



AST-15-1103



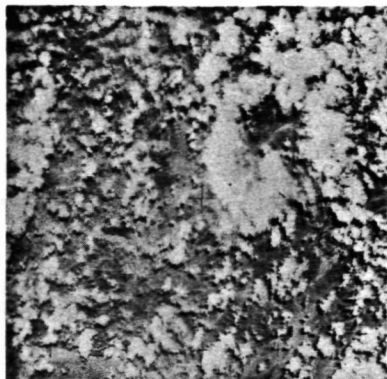
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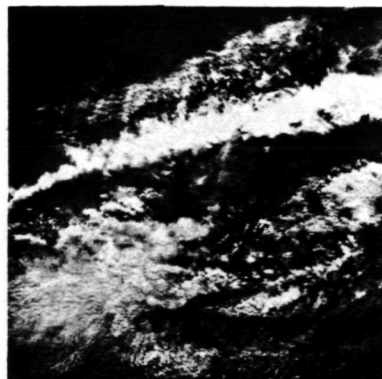
AST-15-1105



AST-15-1106



AST-15-1107



AST-16-1121



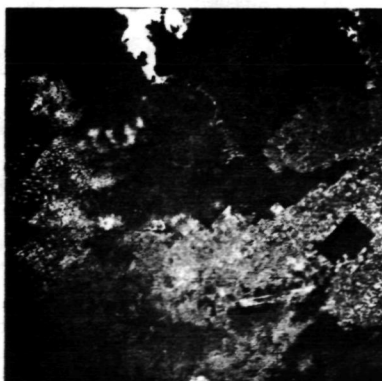
AST-16-1122



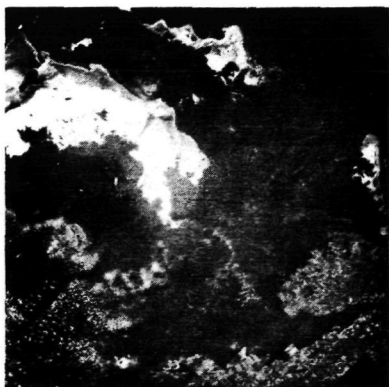
AST-16-1123



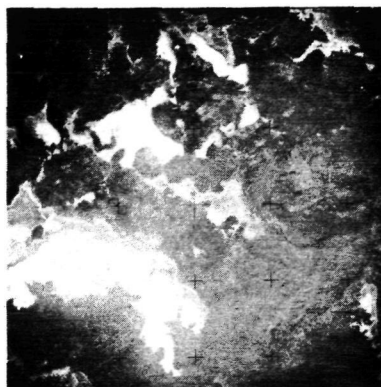
AST-16-1124



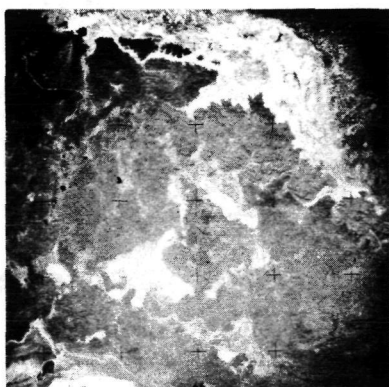
AST-15-1125



AST-16-1126



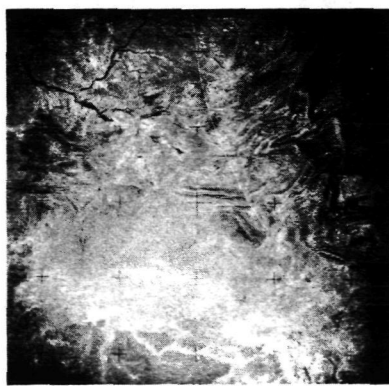
AST-16-1127



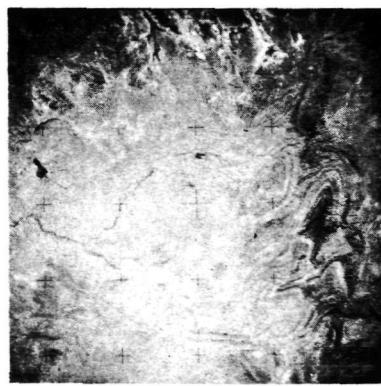
AST-16-1128



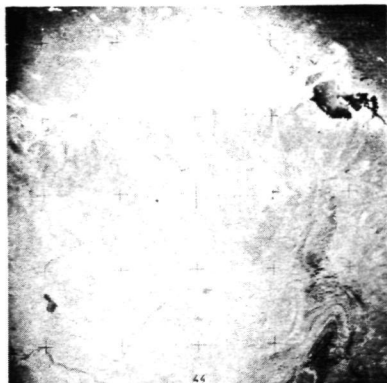
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AST-16-1130



AST-16-1131



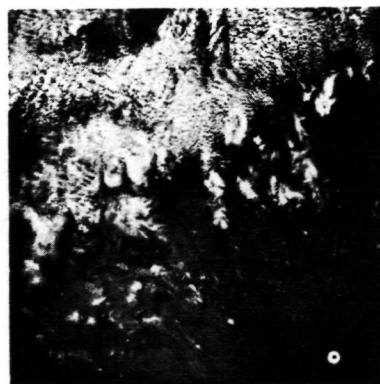
AST-16-1132



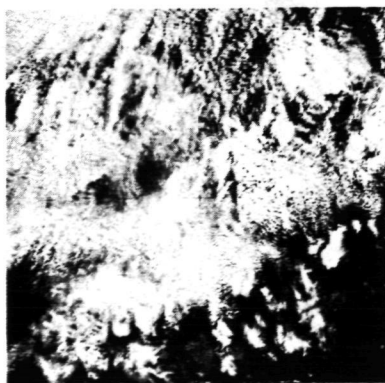
AST-16-1133



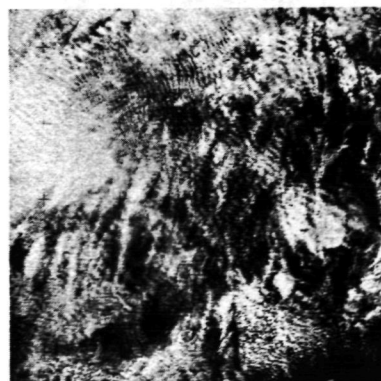
AST-16-1134



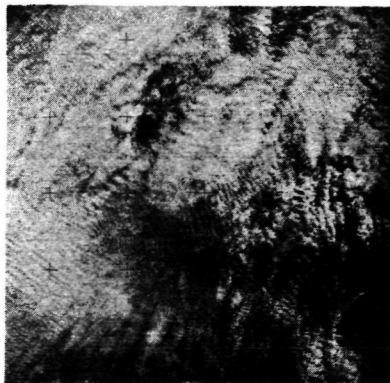
AST-16-1135



AST-16-1136



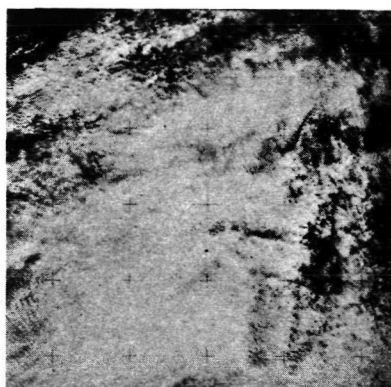
AST-16-1137



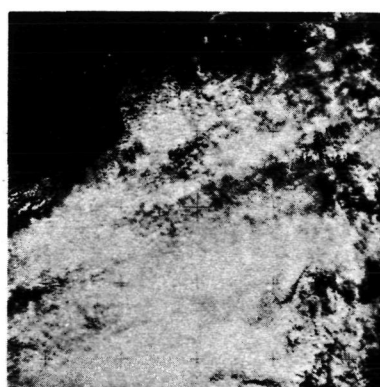
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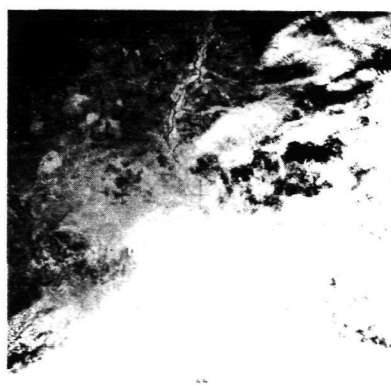
AST-16-1139



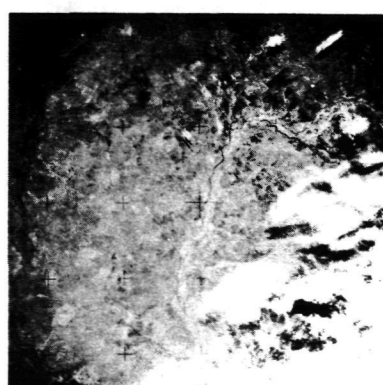
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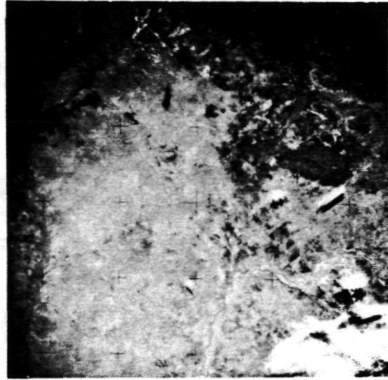
AST-16-1141



AST-16-1142



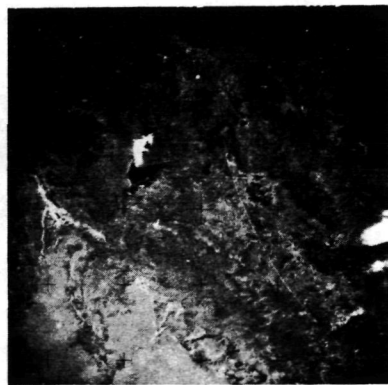
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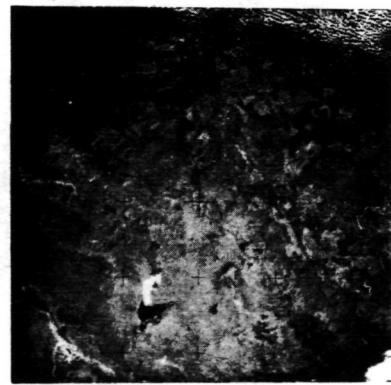
AST-16-1144



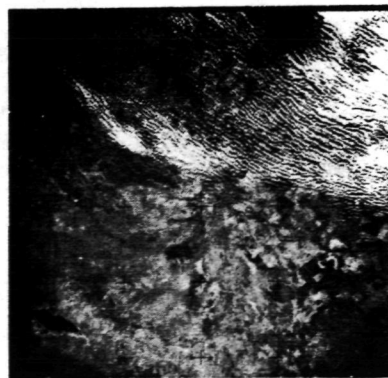
AST-16-1145



AST-16-1146



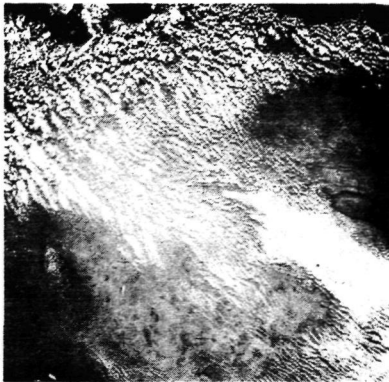
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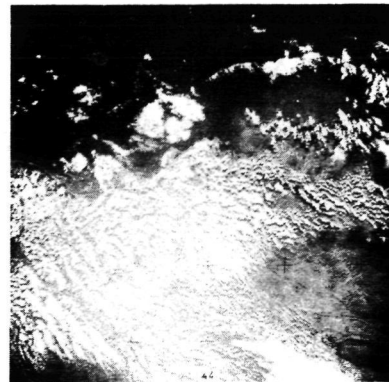
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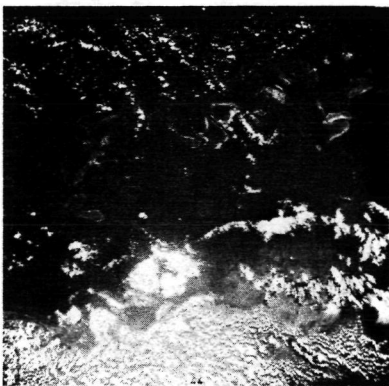
AST-16-1149



AST-16-1150



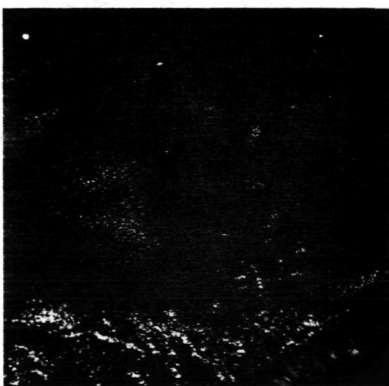
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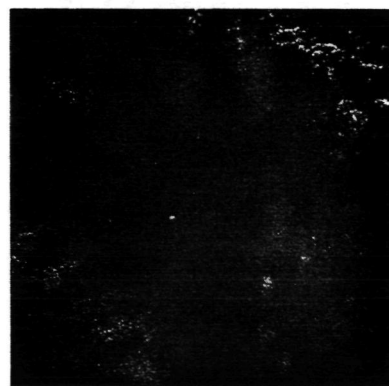
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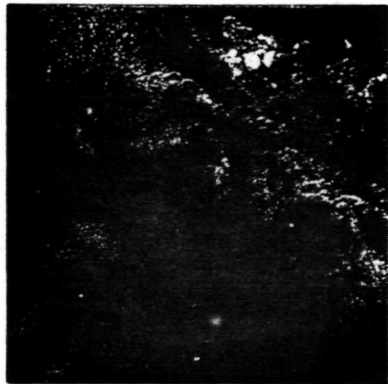
AST-16-1153



AST-16-1154



AST-16-1155



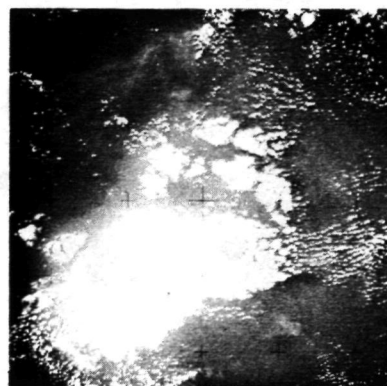
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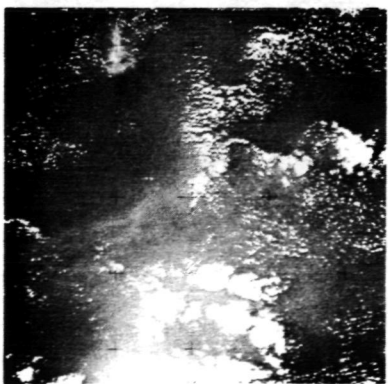
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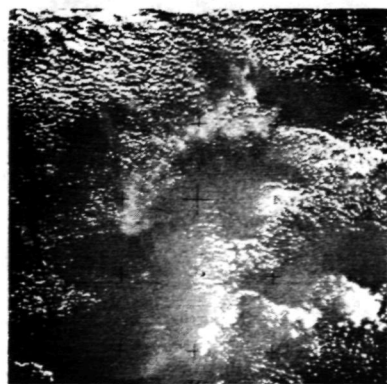
AST-16-1158



AST-16-1159



AST-16-1160



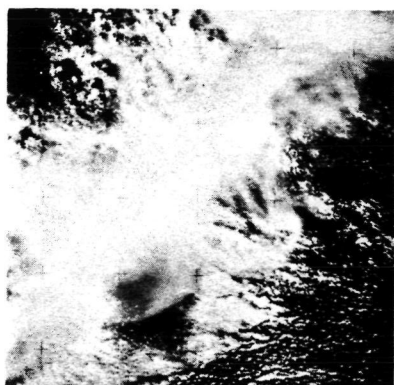
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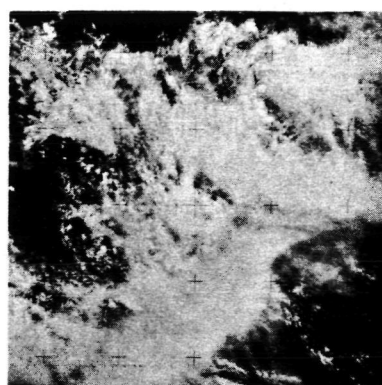
AST-16-1162



AST-16-1163



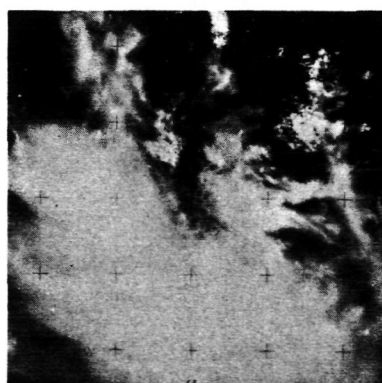
AST-16-1164



AST-16-1165



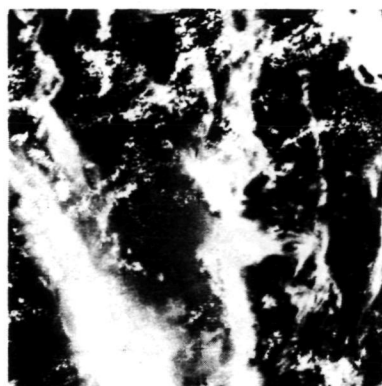
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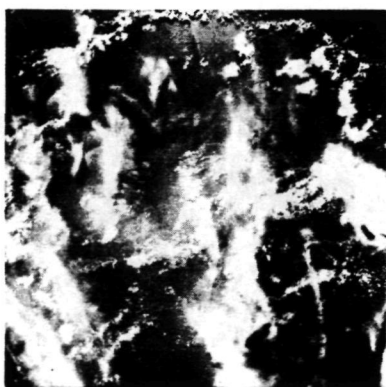
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AST-16-1172



AST-16-1173



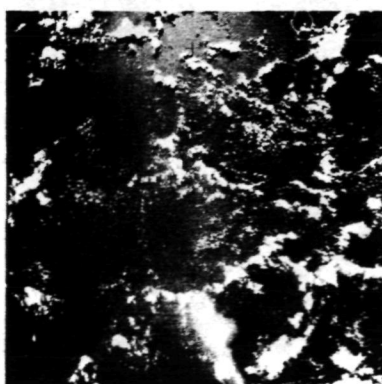
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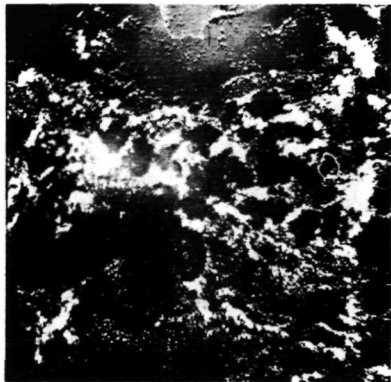
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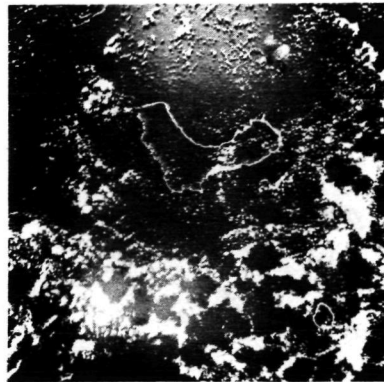
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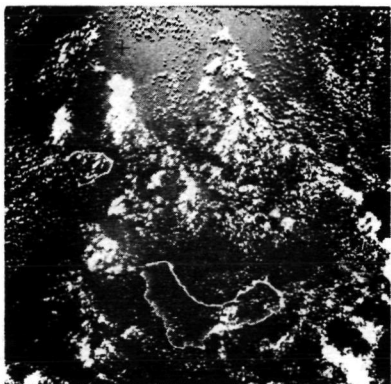
AST-16-1177



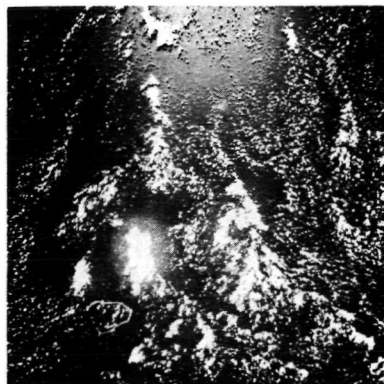
AST-16-1178



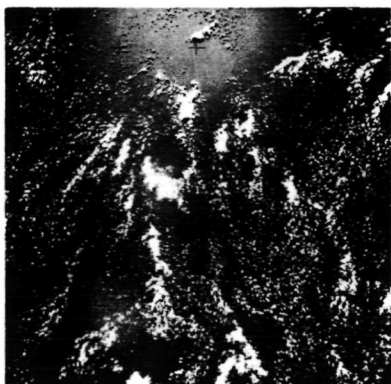
AST-16-1179



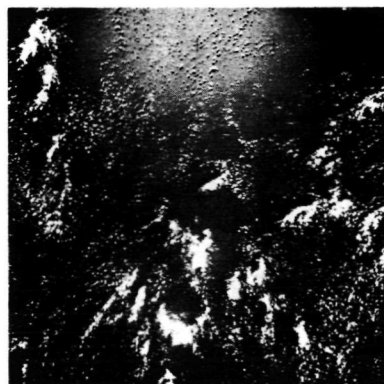
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AST-16-1181



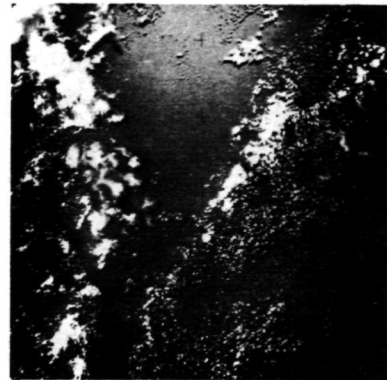
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AST-16-1183



AST-16-1184



AST-16-1185



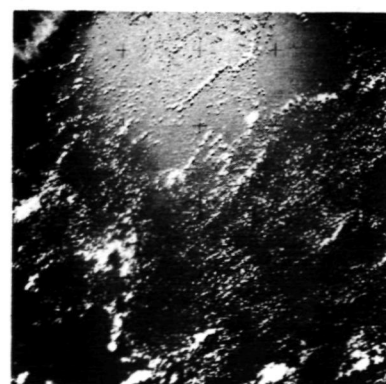
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AST-16-1187



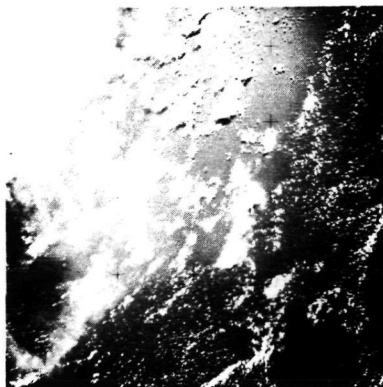
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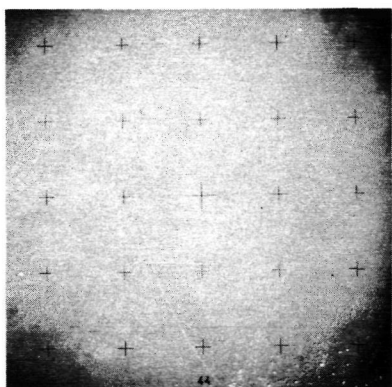
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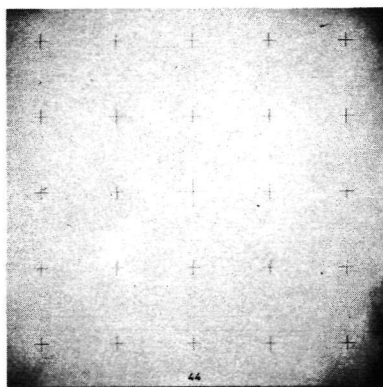
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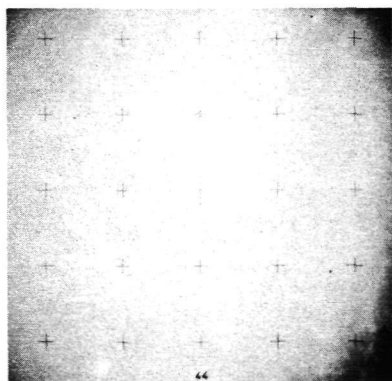
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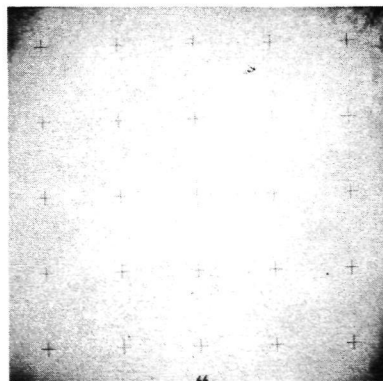
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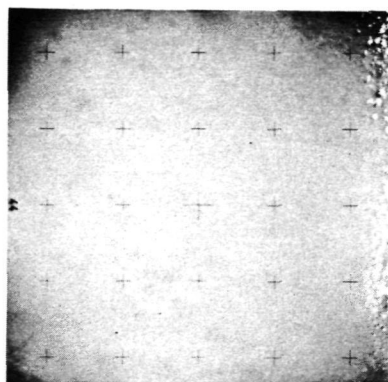
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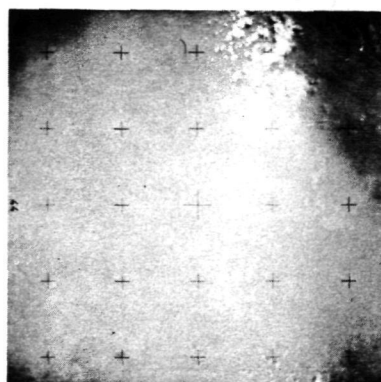
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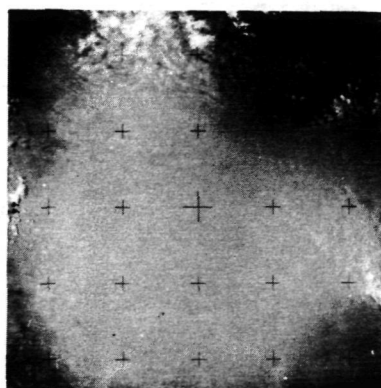
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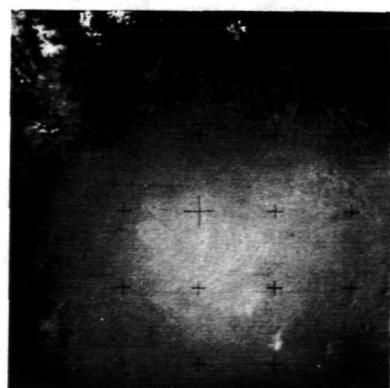
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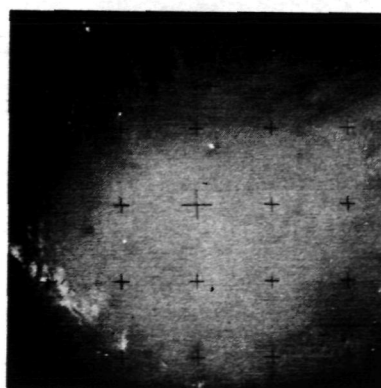
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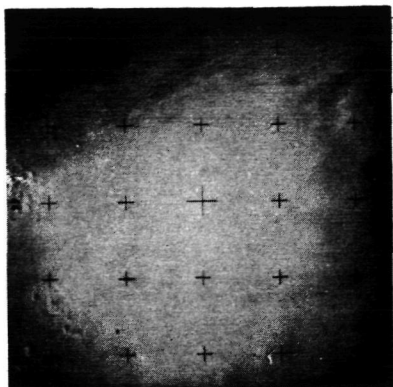
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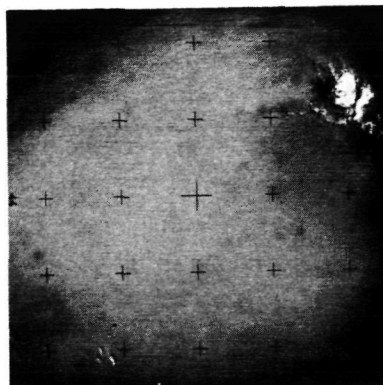
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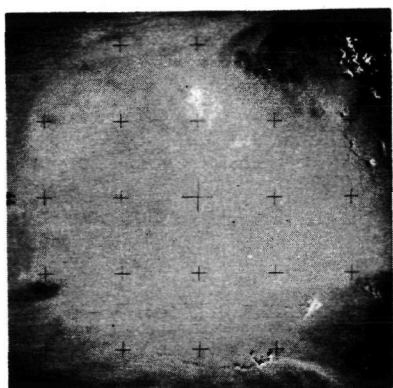
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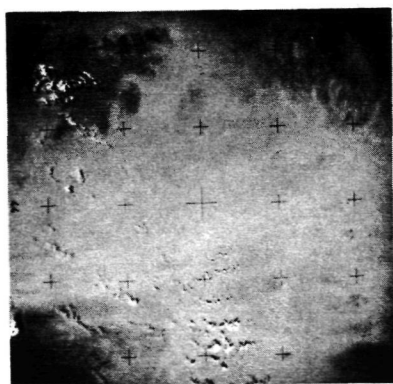
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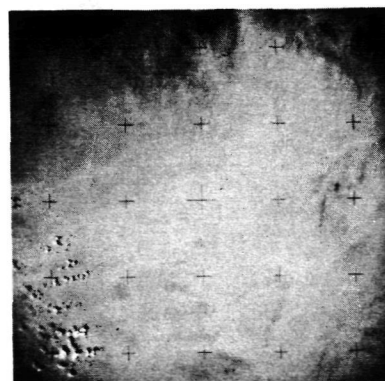
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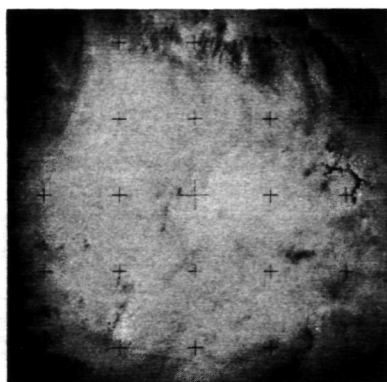
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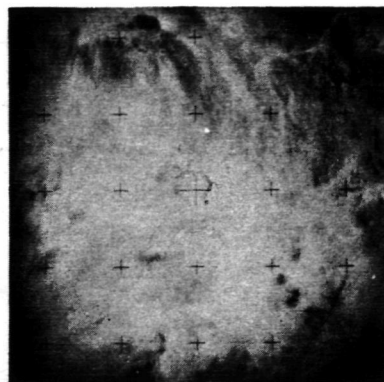
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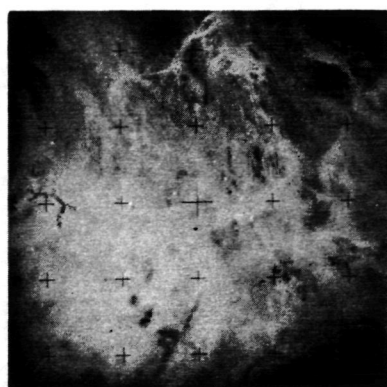
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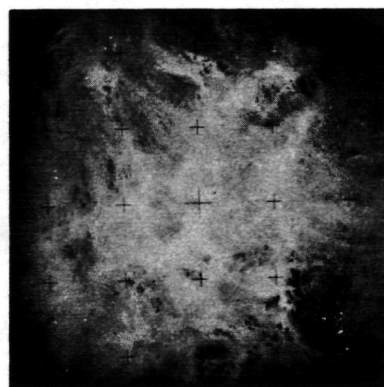
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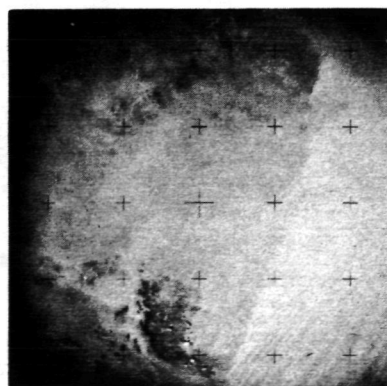
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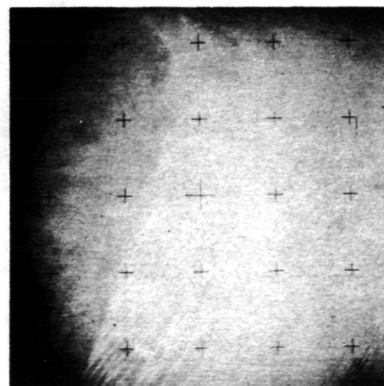
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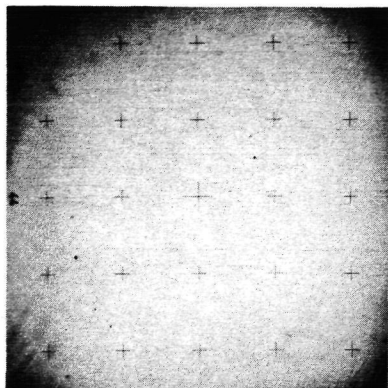
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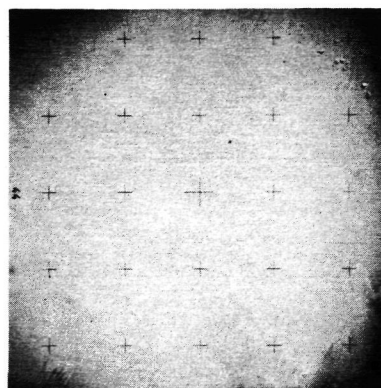
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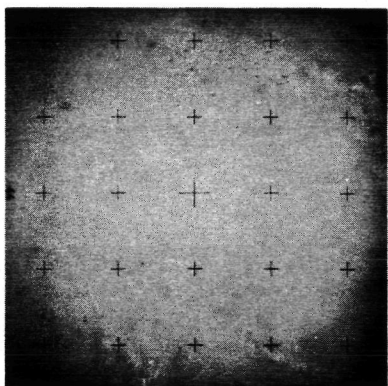
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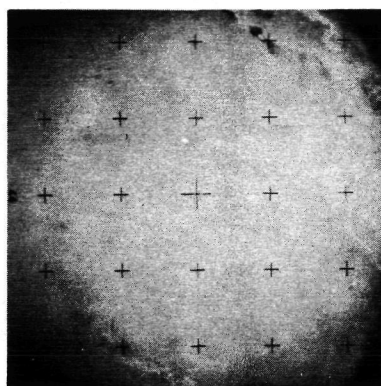
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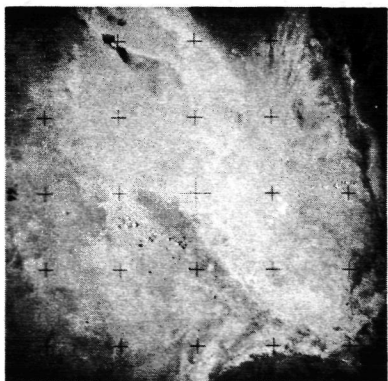
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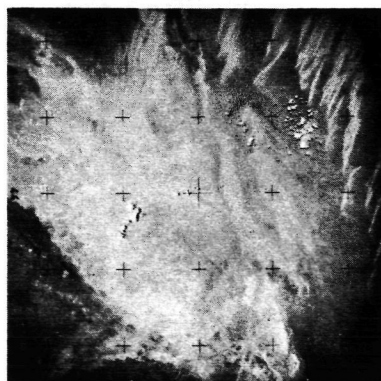
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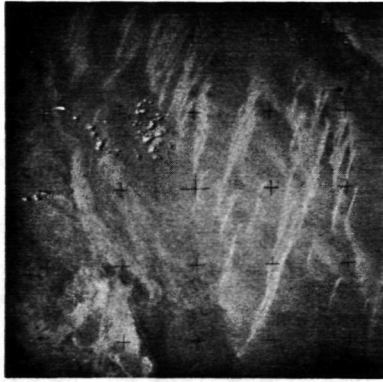
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AST-16-1252



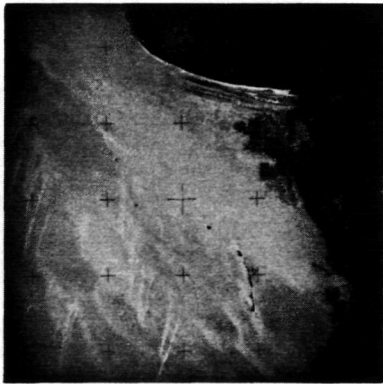
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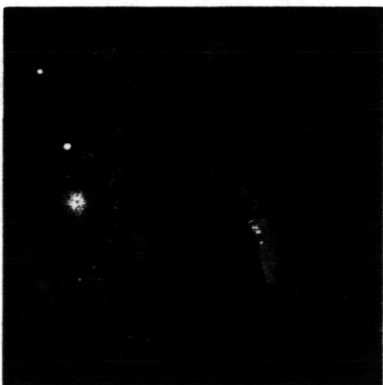
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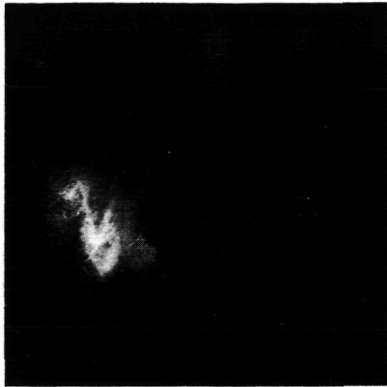
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AST-16-1258



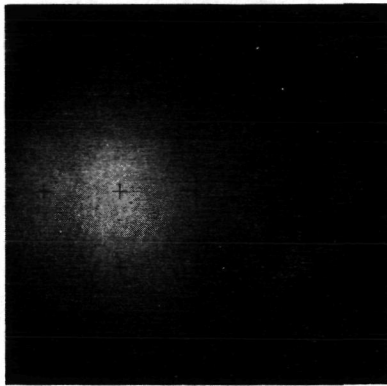
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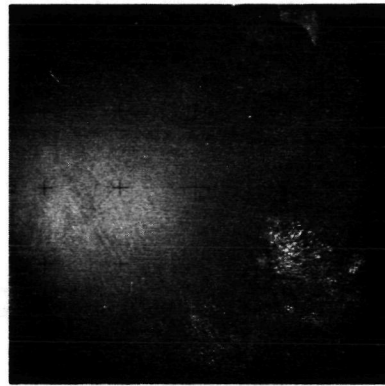
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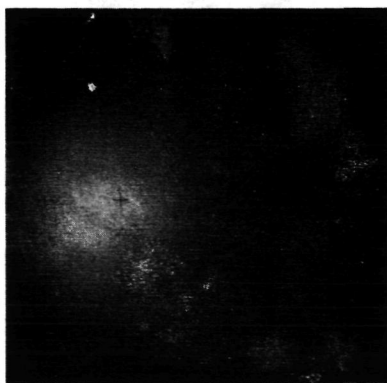
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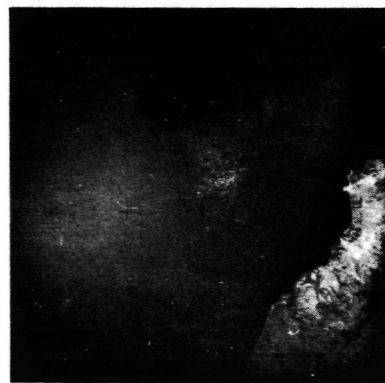
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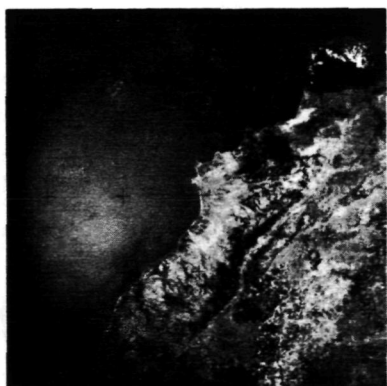
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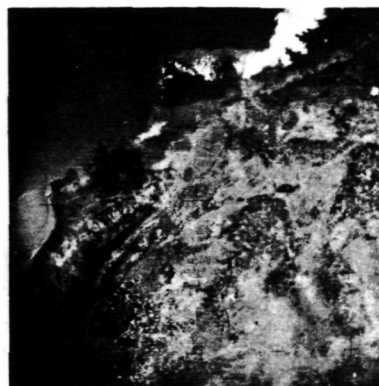
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AST-16-1266



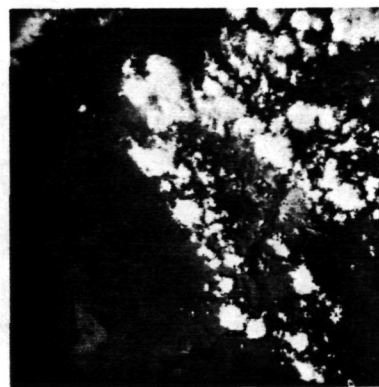
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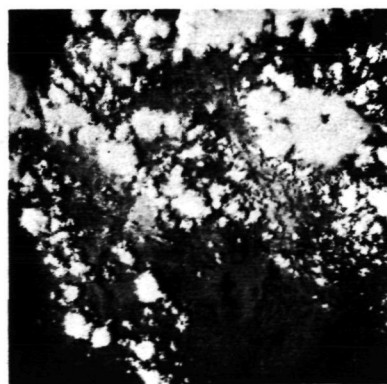
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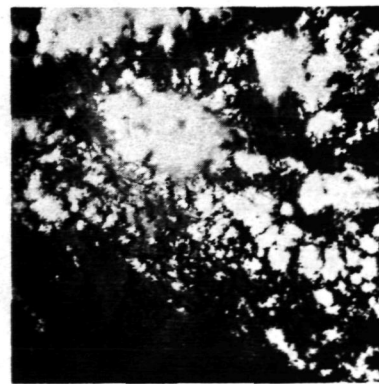
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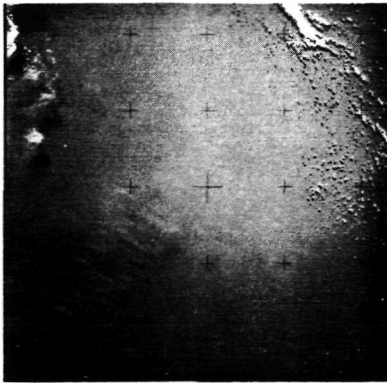
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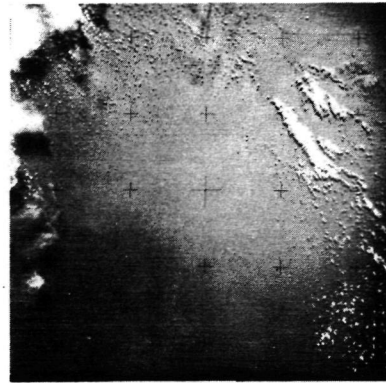
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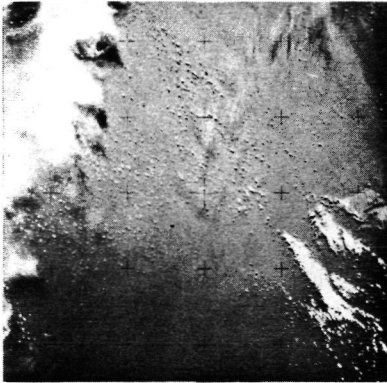
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AST-17-1274



AST-17-1275



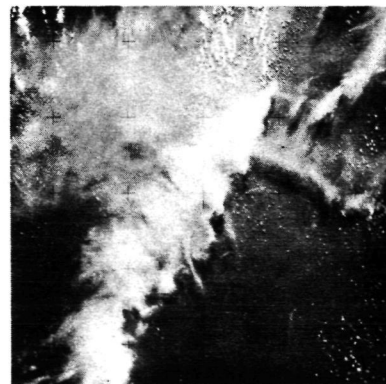
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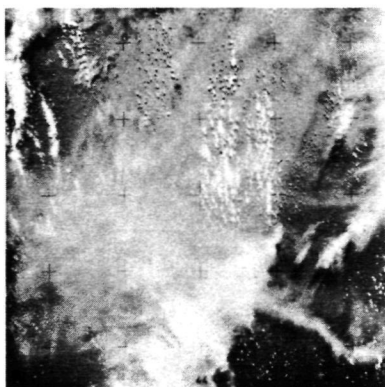
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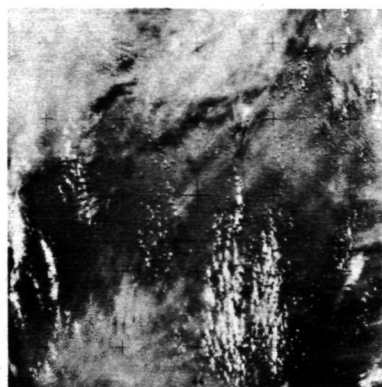
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AST-17-1279



AST-17-1280



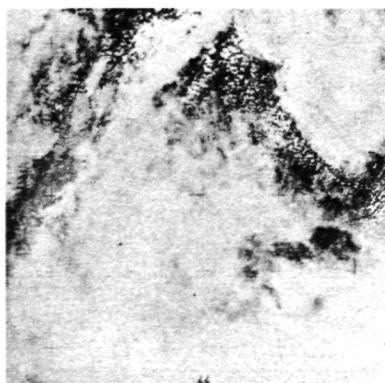
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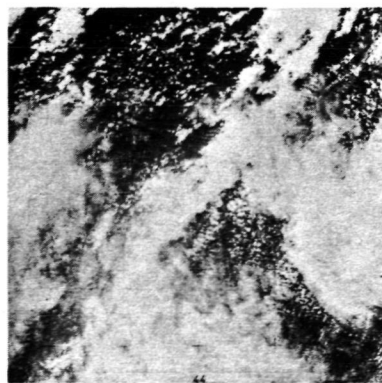
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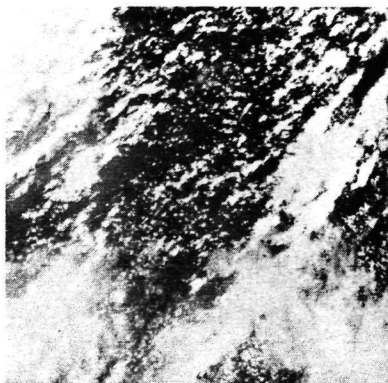
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AST-17-1295



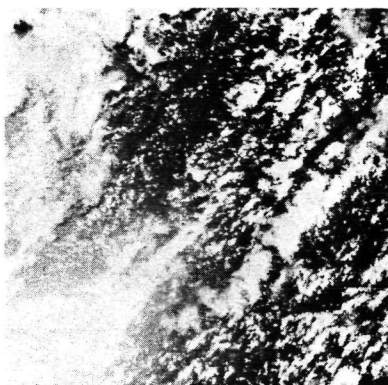
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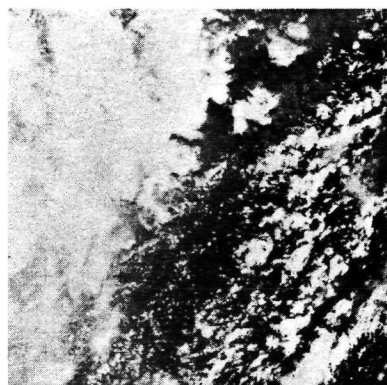
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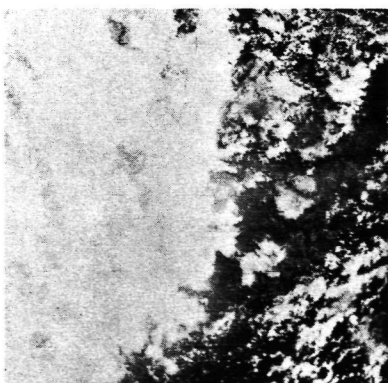
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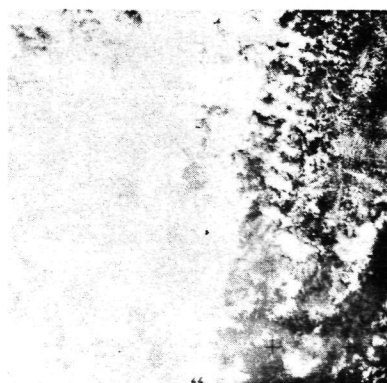
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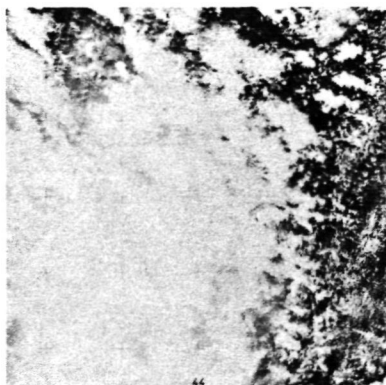
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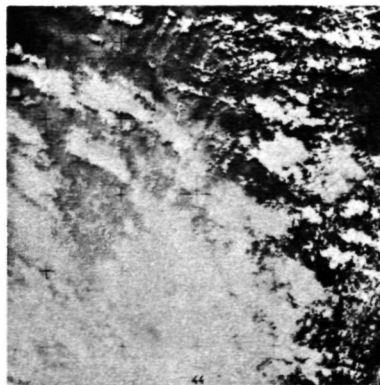
AST-17-1301



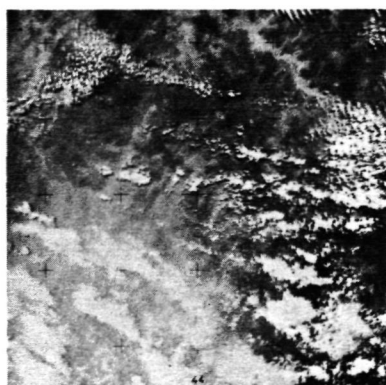
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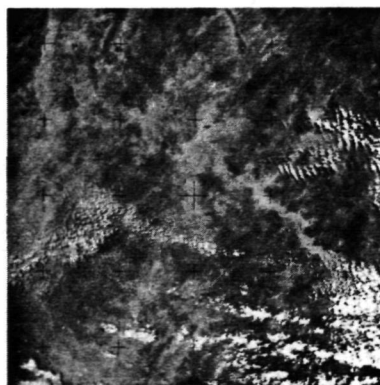
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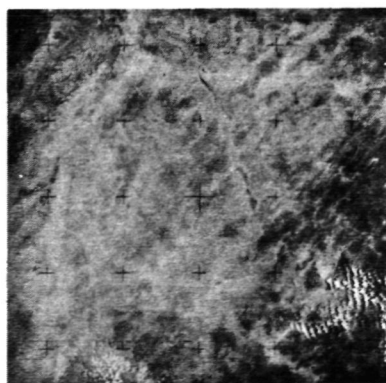
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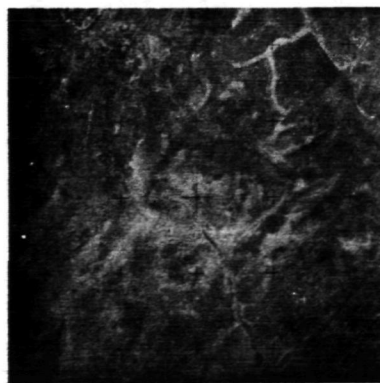
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AST-17-1306



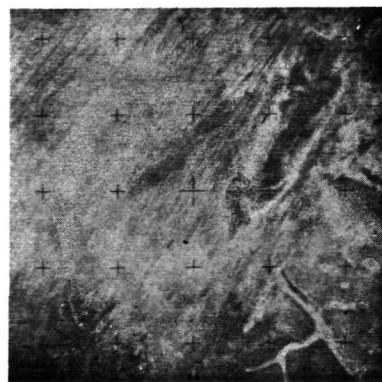
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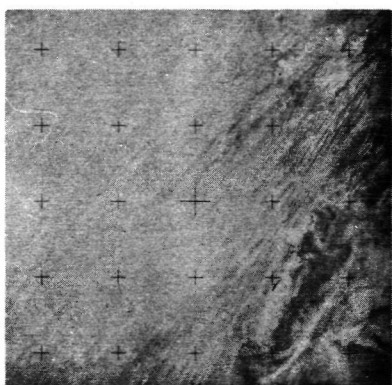
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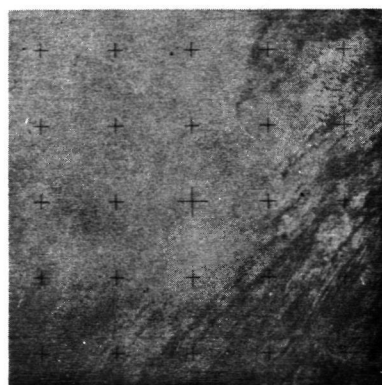
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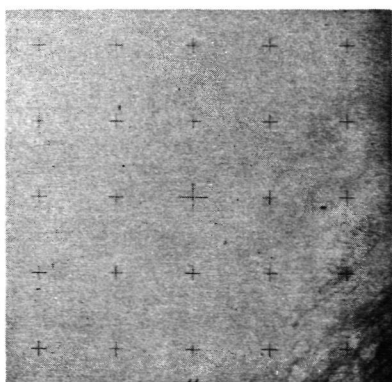
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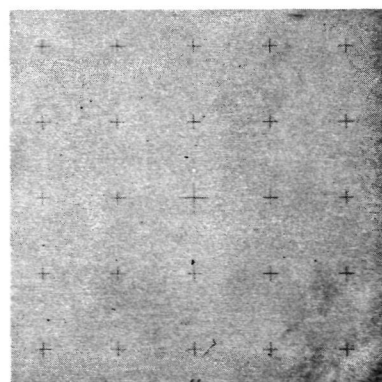
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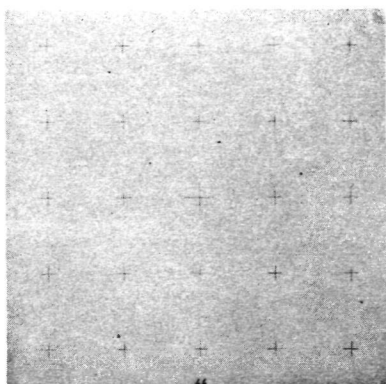
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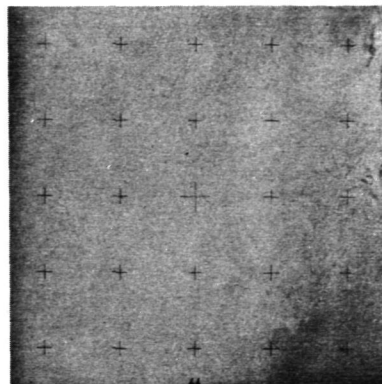
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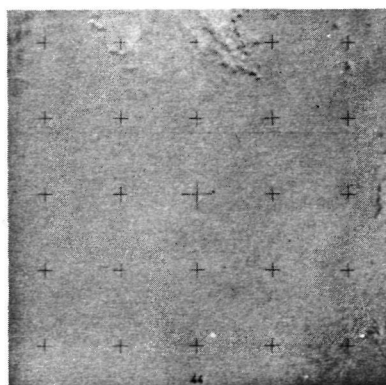
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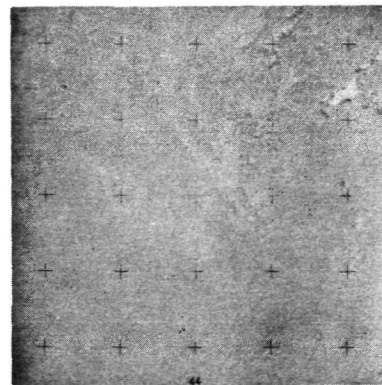
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AST-17-1316



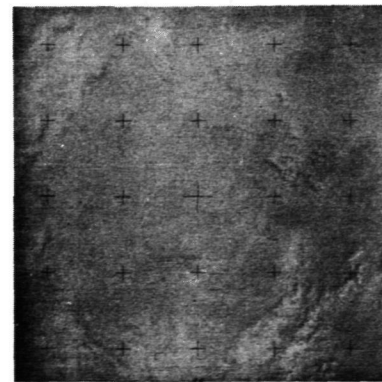
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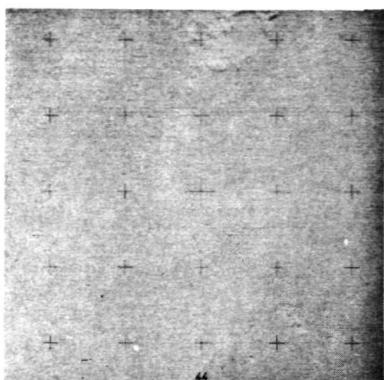
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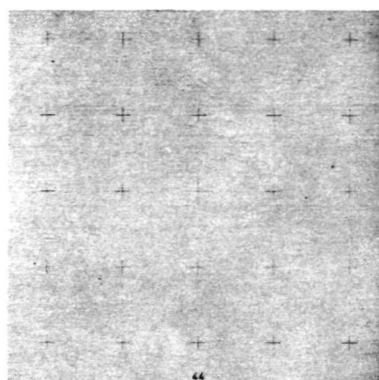
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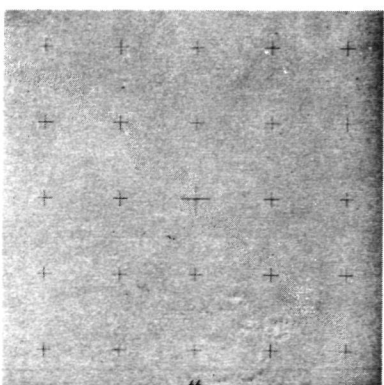
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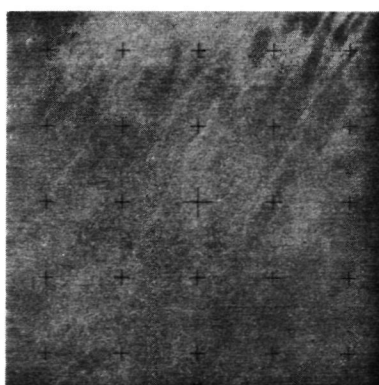
AST-17-1321



AST-17-1322



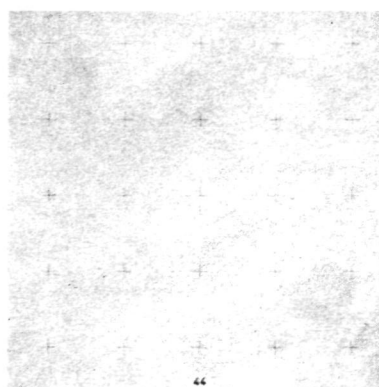
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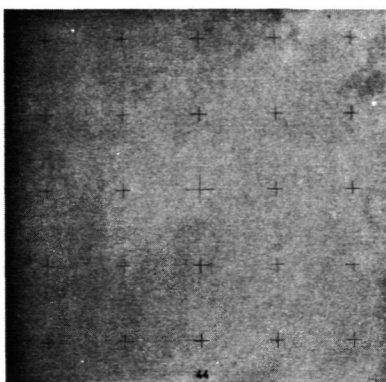
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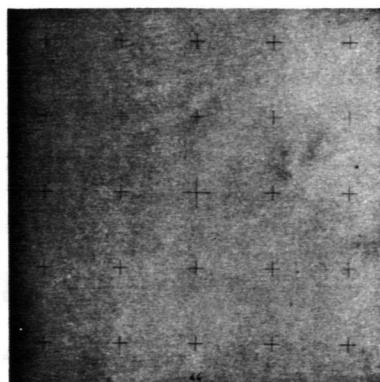
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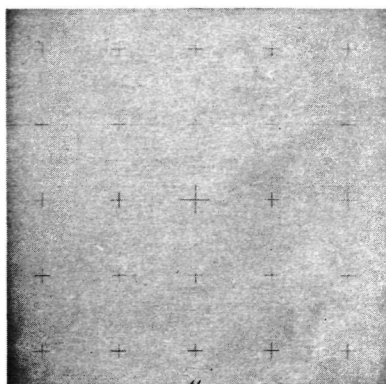
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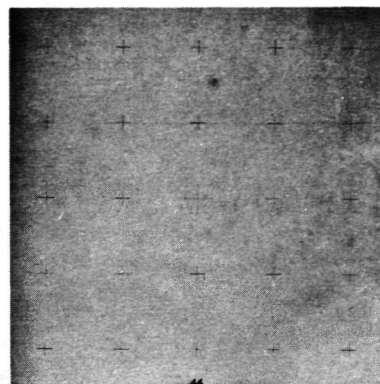
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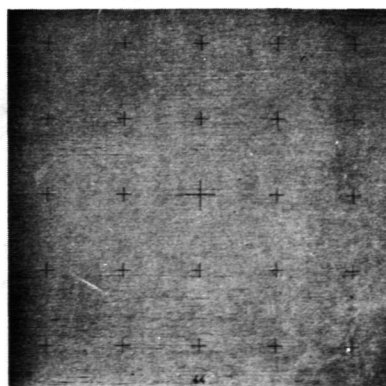
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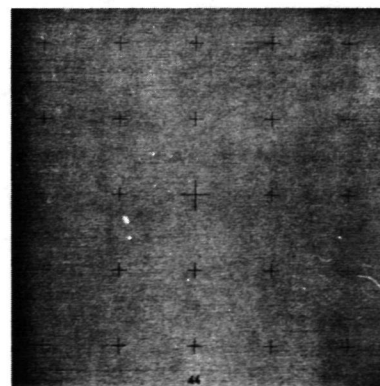
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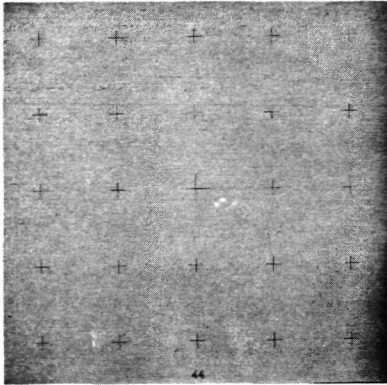
AST-17-1330



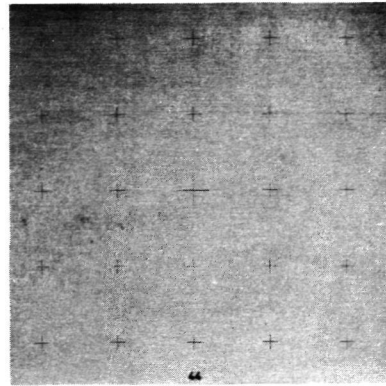
AST-17-1331



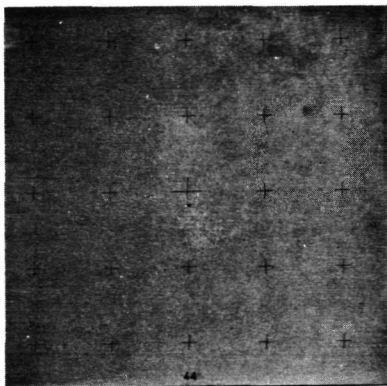
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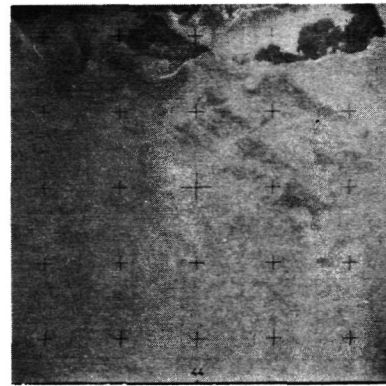
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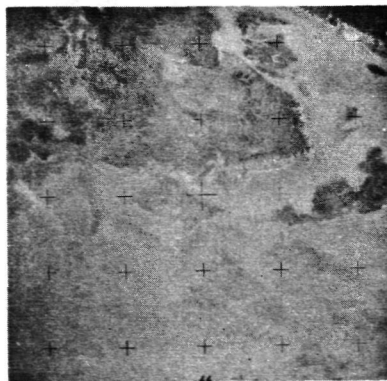
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AST-17-1335



AST-17-1336



AST-17-1337



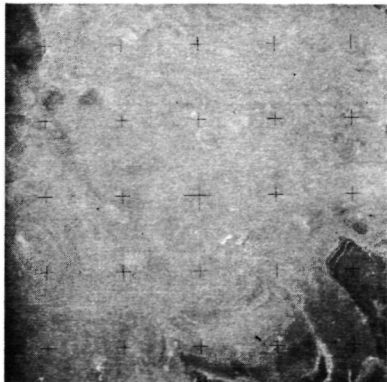
AST-17-1338



AST-17-1339



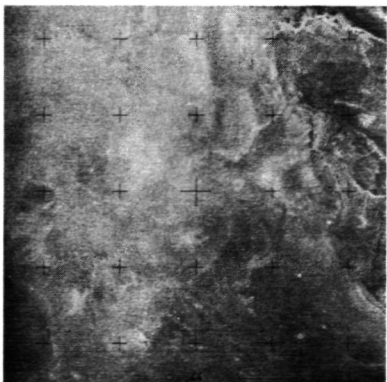
AST-17-1340



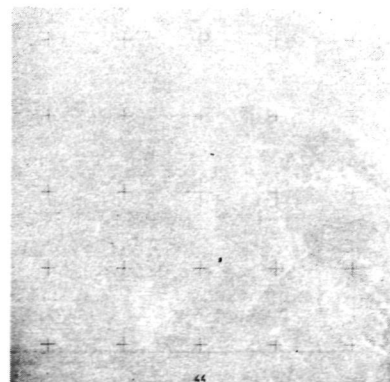
AST-17-1341



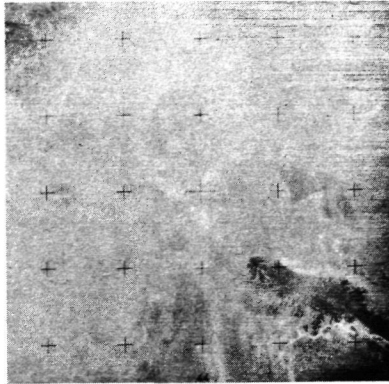
AST-17-1342



AST-17-1343



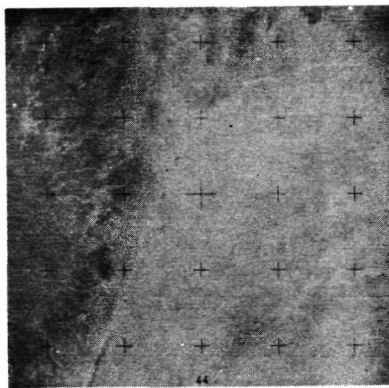
AST-17-1344



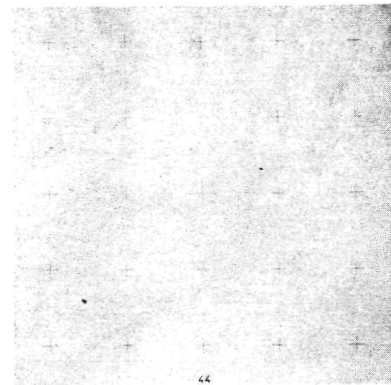
AST-17-1345



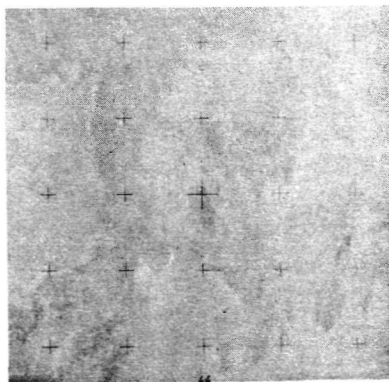
AST-17-1346



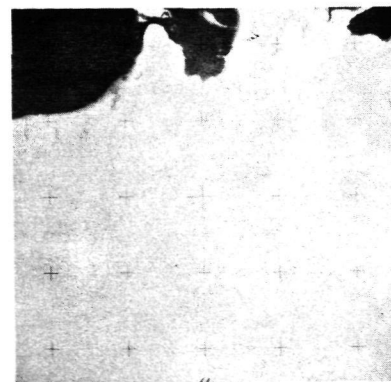
AST-17-1347



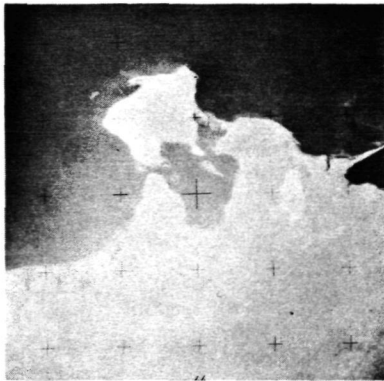
AST-17-1348



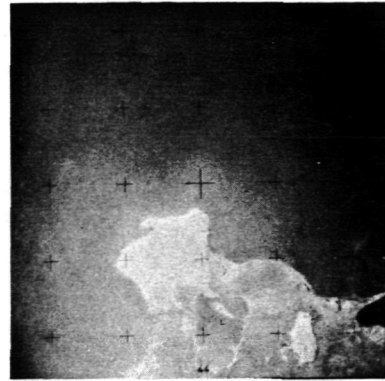
AST-17-1349



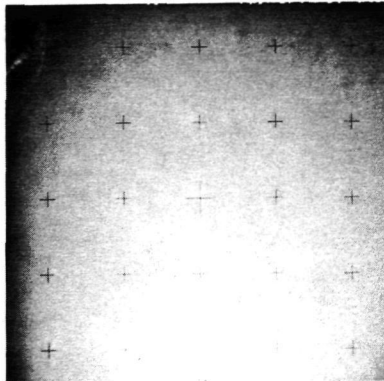
AST-17-1366



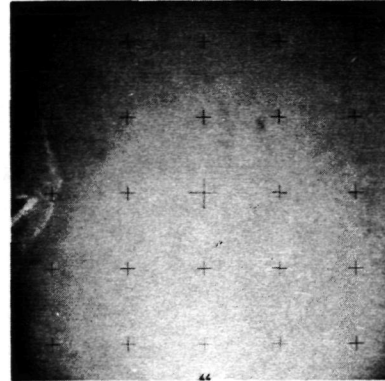
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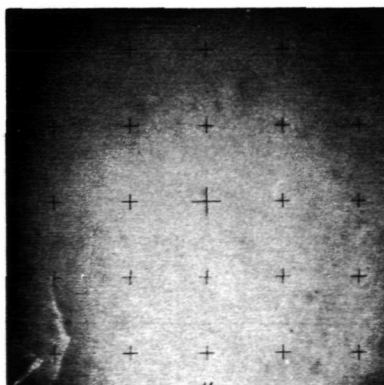
AST-17-1368



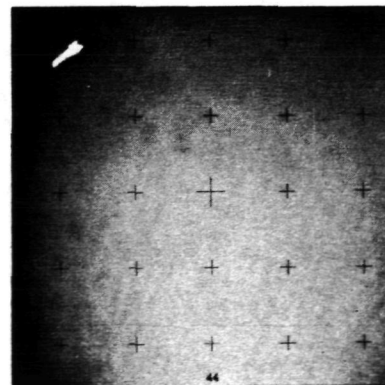
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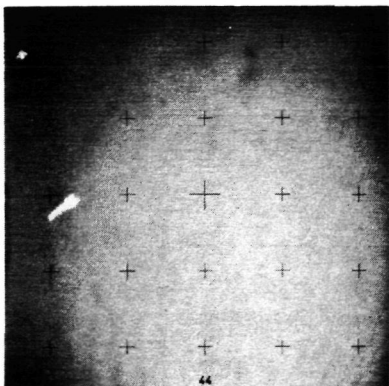
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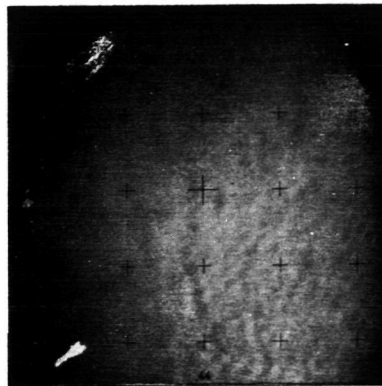
AST-17-1371



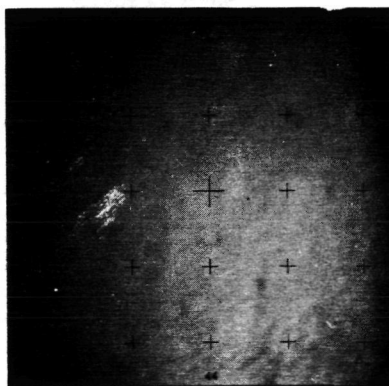
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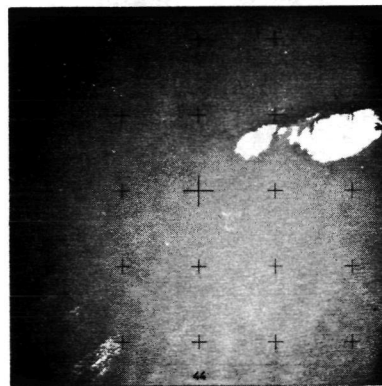
AST-17-1373



AST-17-1374



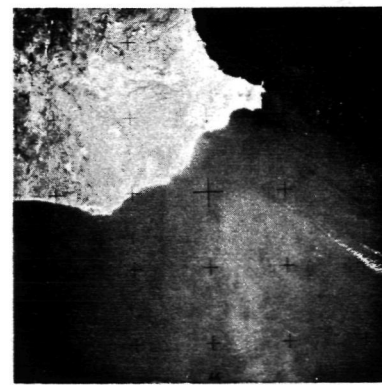
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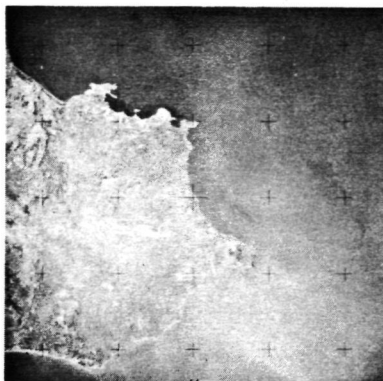
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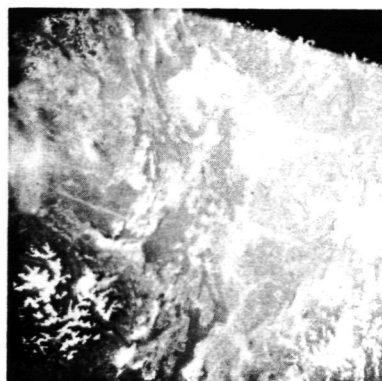
AST-17-1377



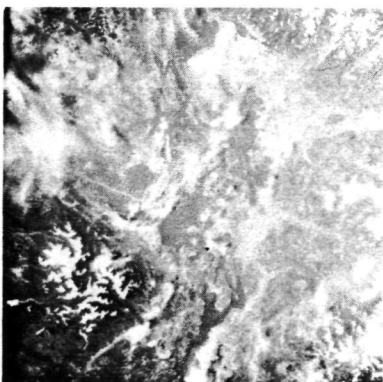
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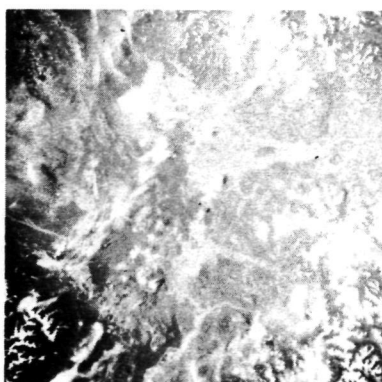
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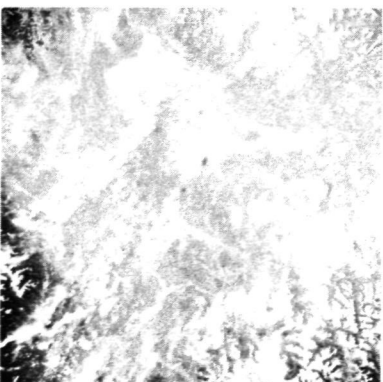
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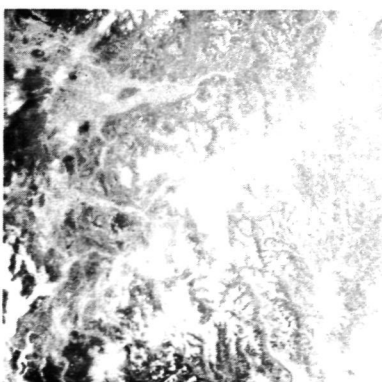
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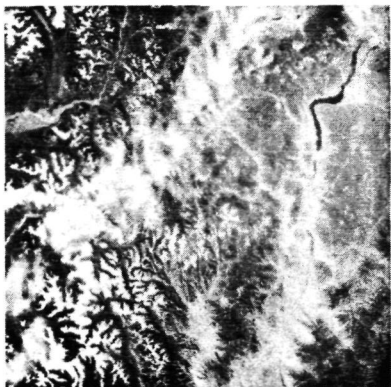
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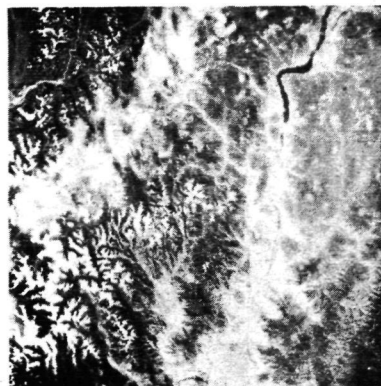
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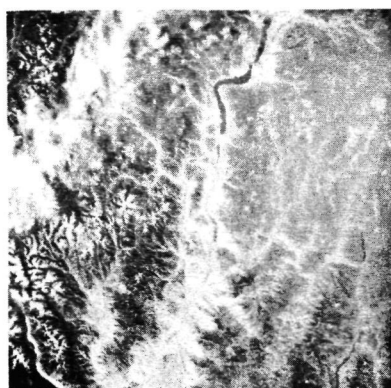
AST-19-1540



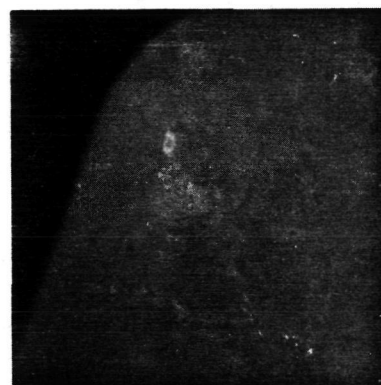
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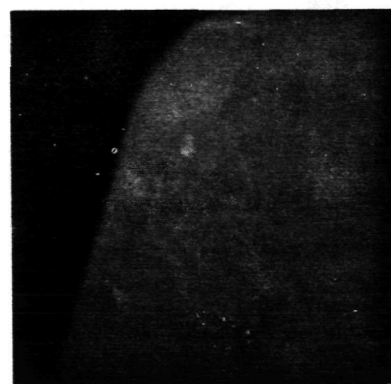
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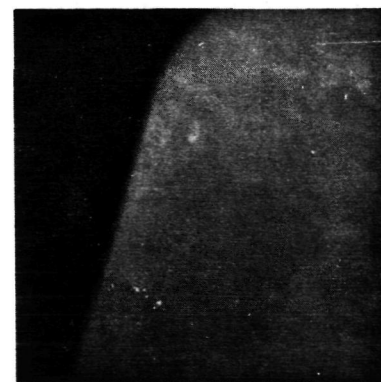
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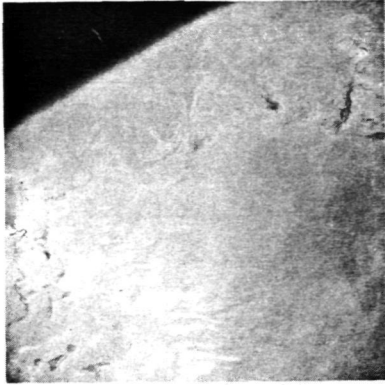
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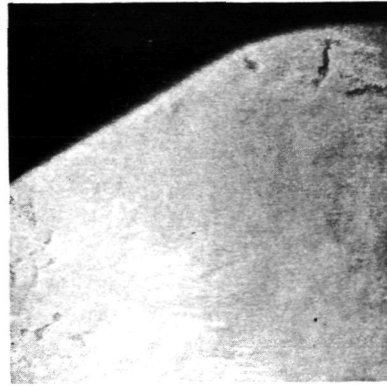
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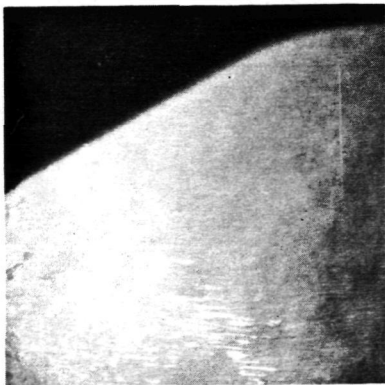
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AST-19-1547



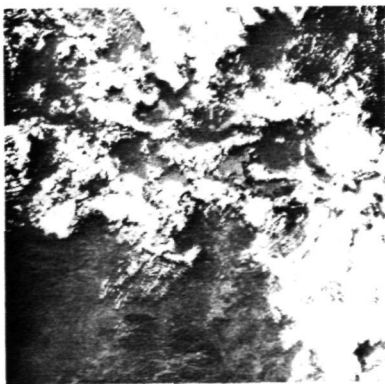
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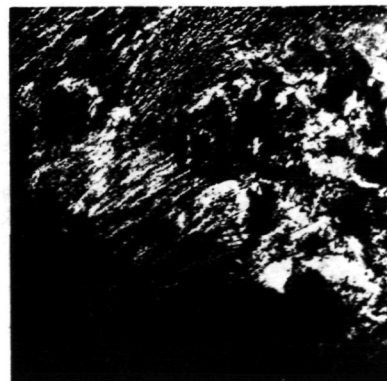
AST-19-1549



AST-19-1550



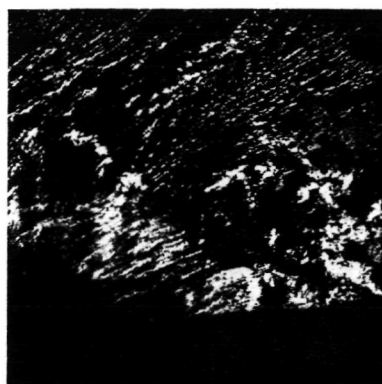
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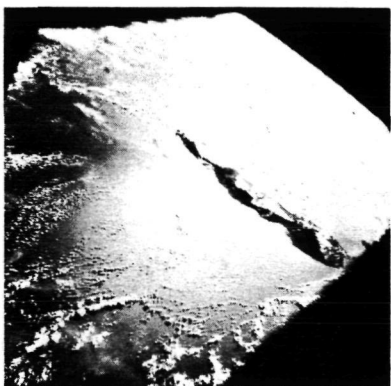
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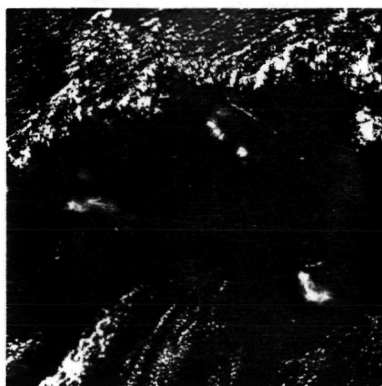
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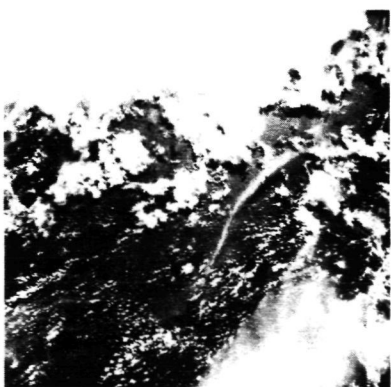
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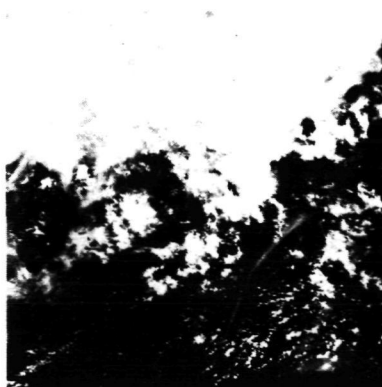
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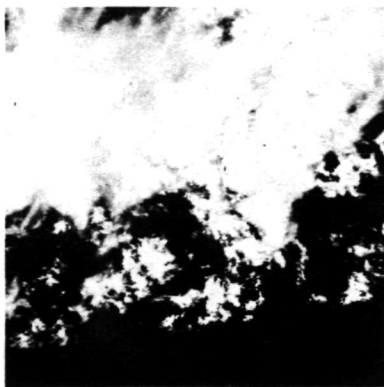
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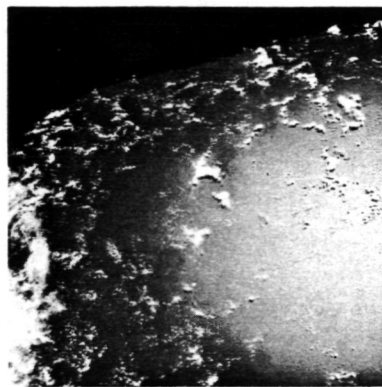
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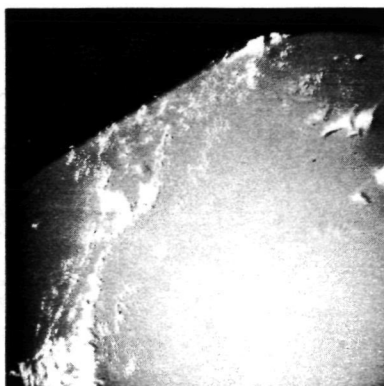
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AST-19-1561



AST-19-1562



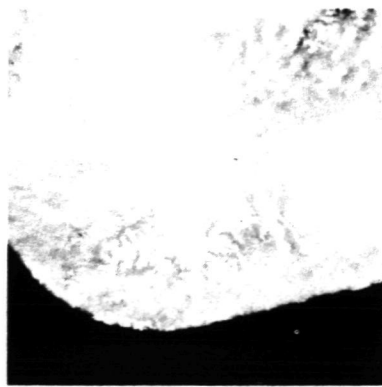
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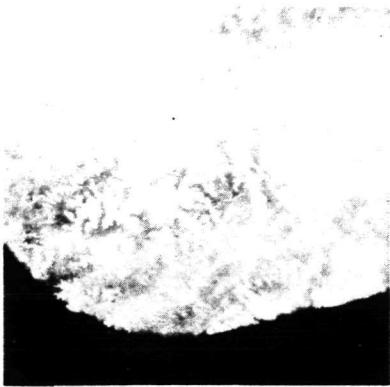
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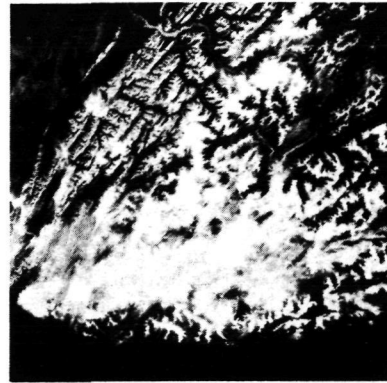
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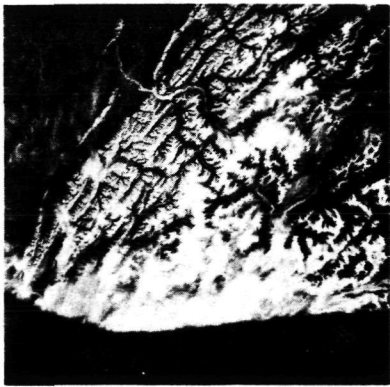
AST-19-1568



AST-19-1569



AST-19-1570



AST-19-1571



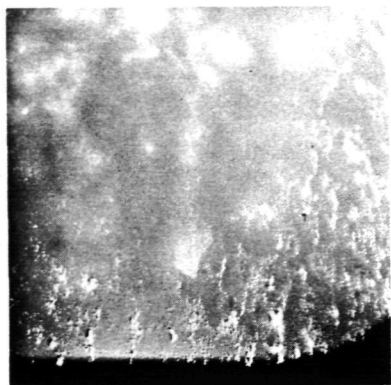
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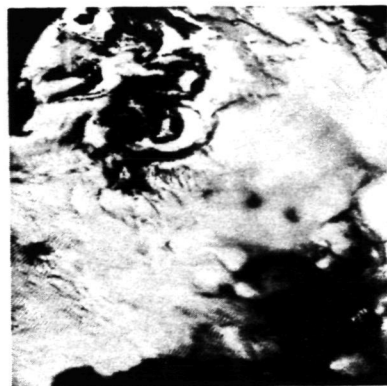
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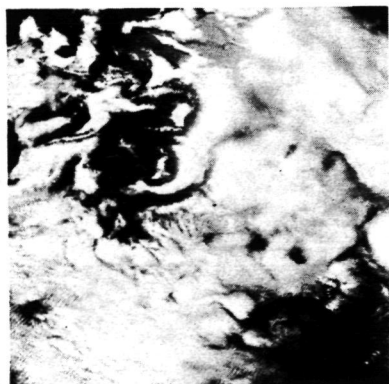
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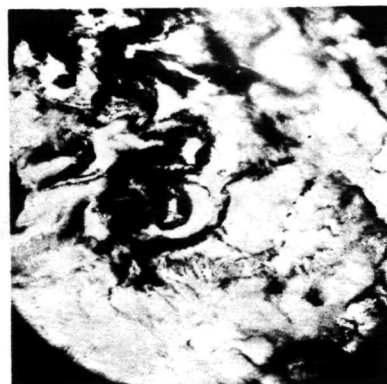
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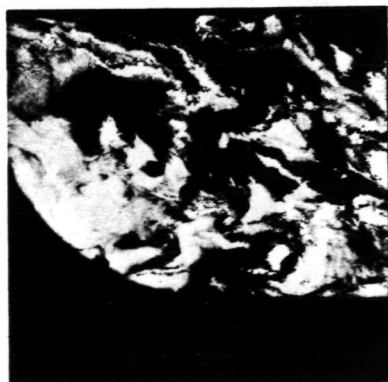
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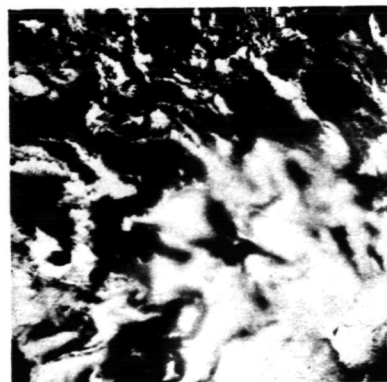
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AST-19-1579



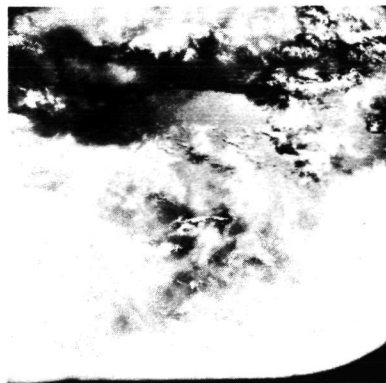
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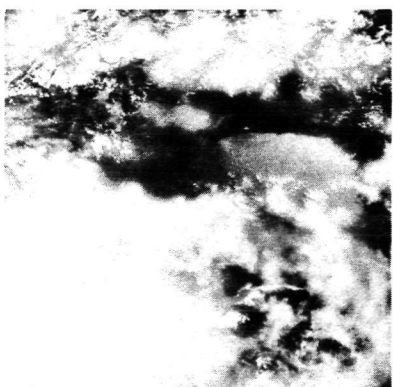
AST-19-1581



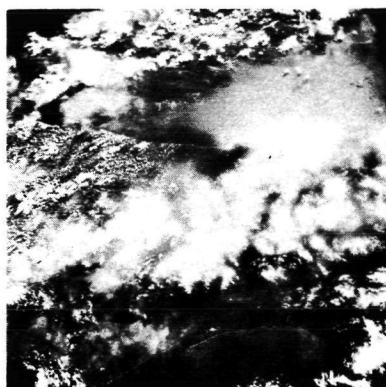
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AST-19-1583



AST-19-1584



AST-19-1585



AST-19-1586



AST-19-1587



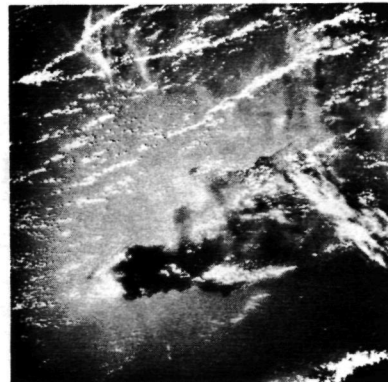
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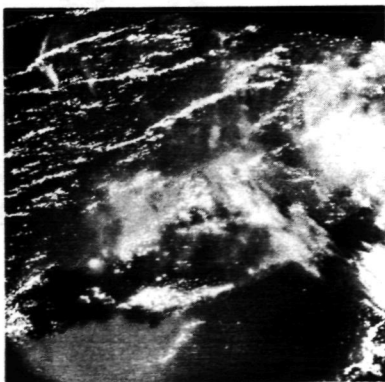
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AST-19-1590



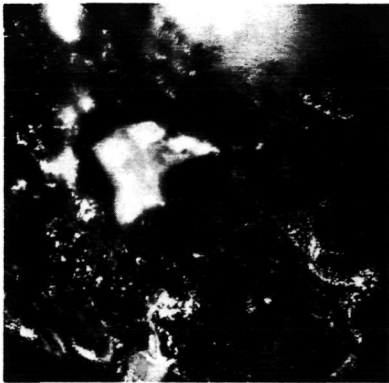
AST-19-1591



AST-19-1592



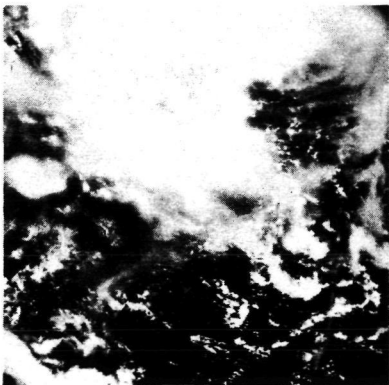
AST-19 1593



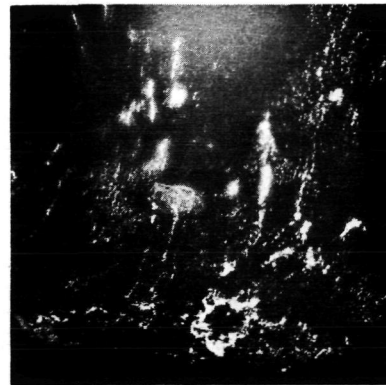
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AST-19-1596



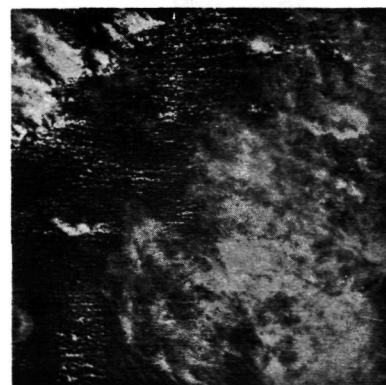
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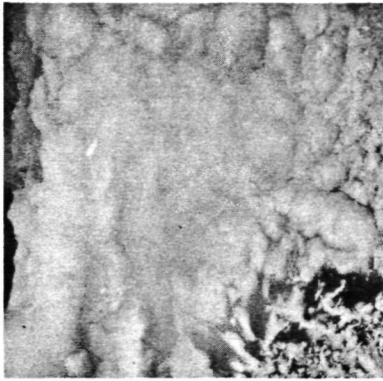
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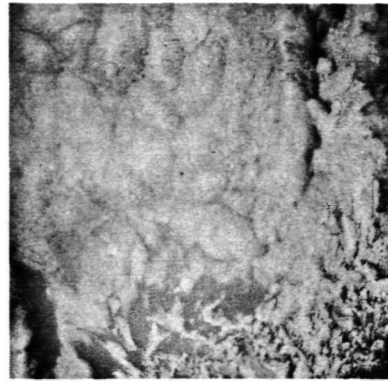
AST-19-1599



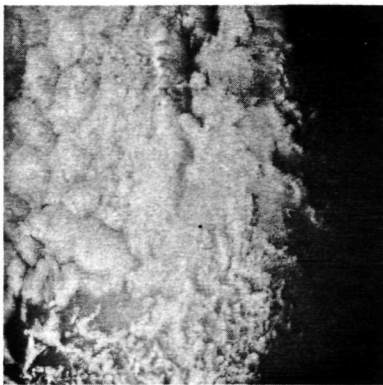
AST-20-1600



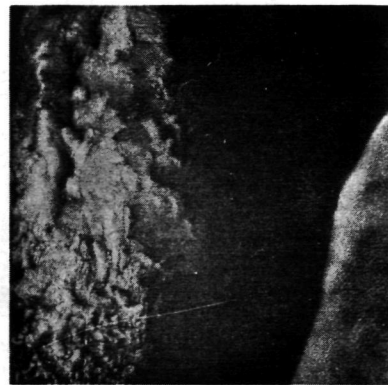
AST-20-1601



AST-20-1602



AST-20-1603



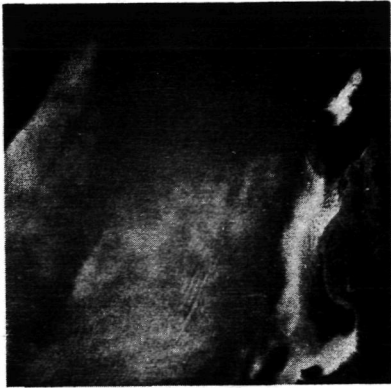
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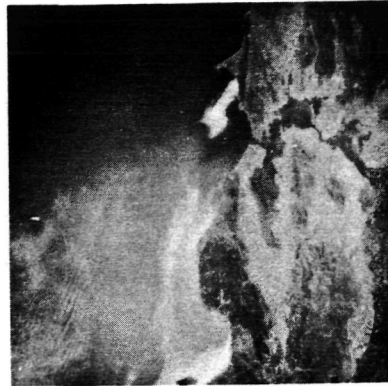
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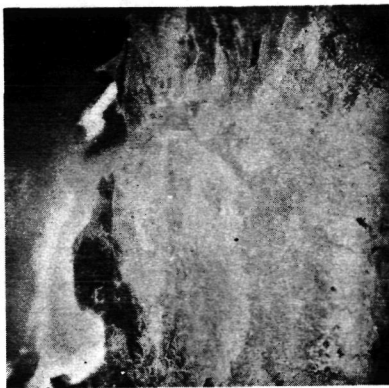
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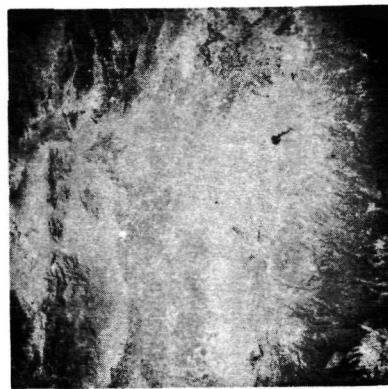
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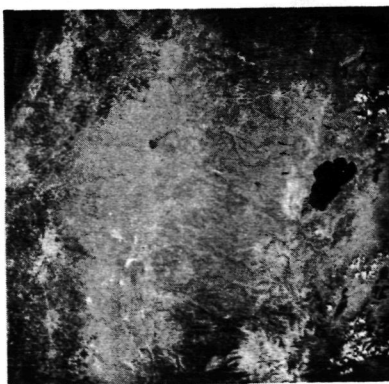
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AST-20-1609



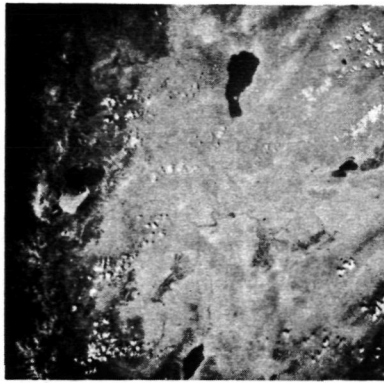
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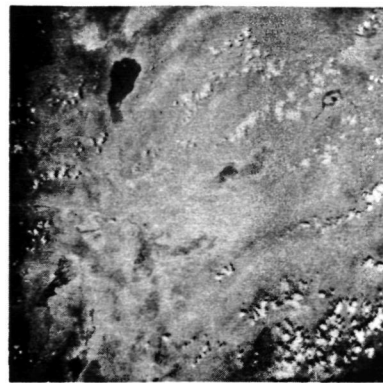
AST-20-1611



AST-20-1612



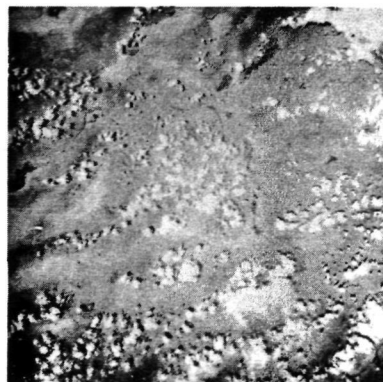
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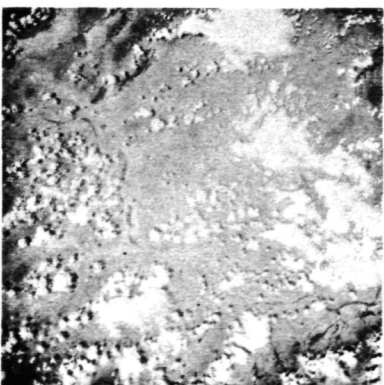
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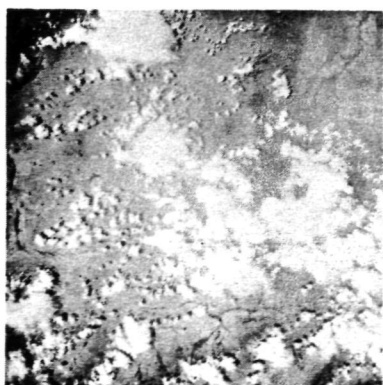
AST-20-1615



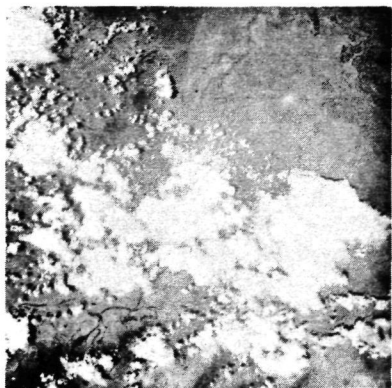
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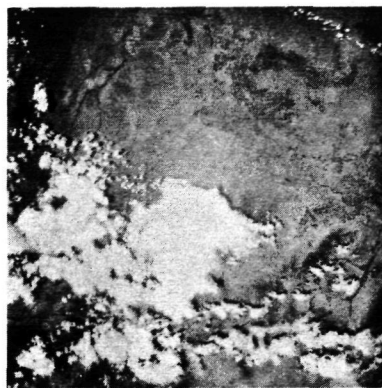
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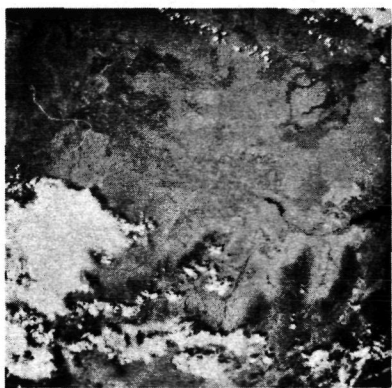
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AST-20-1619



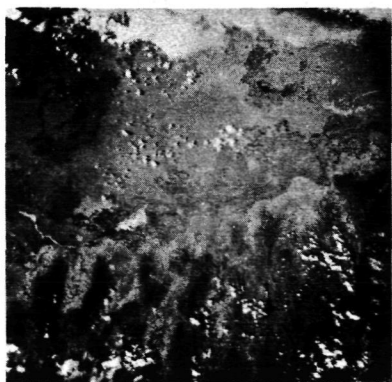
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AST-20-1621



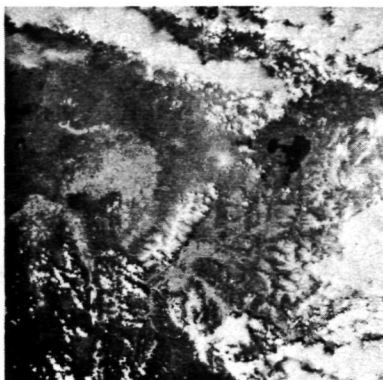
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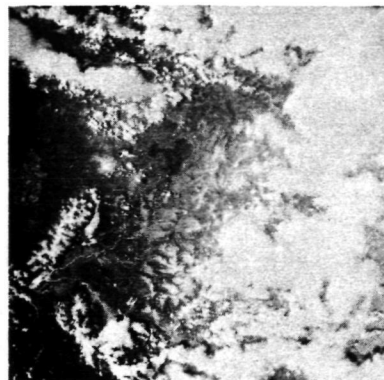
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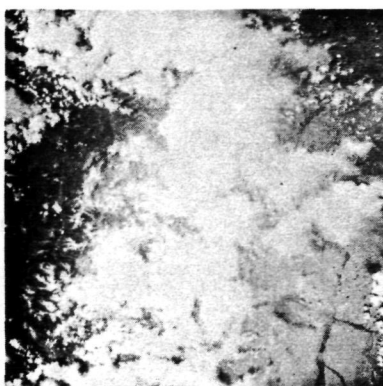
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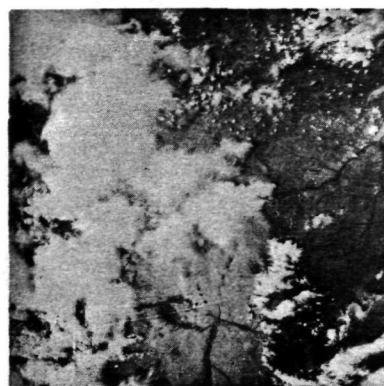
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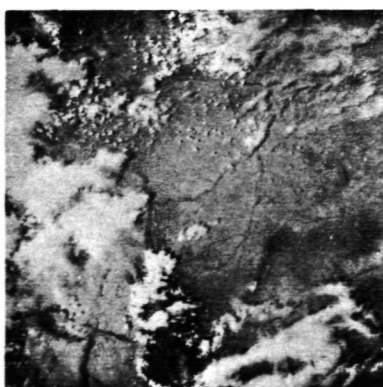
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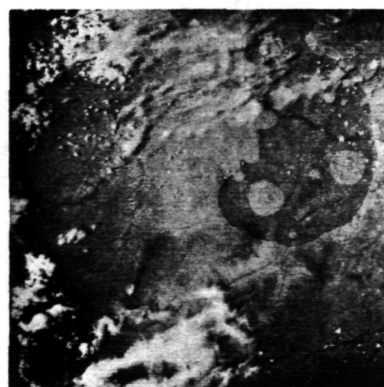
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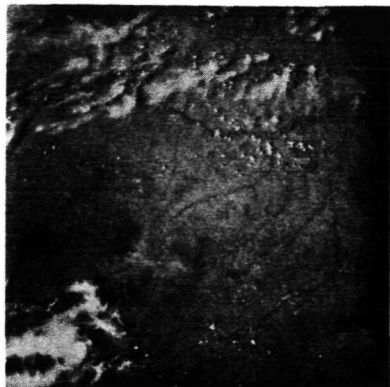
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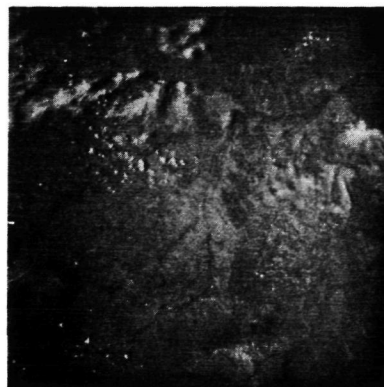
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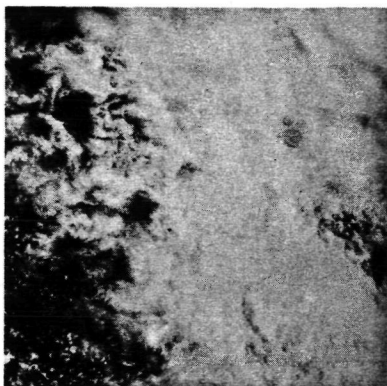
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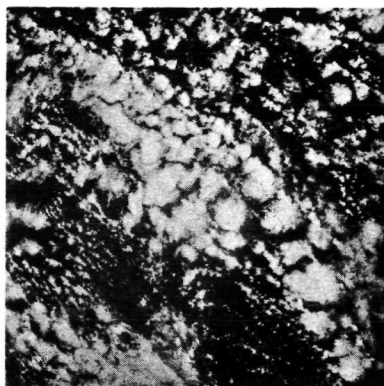
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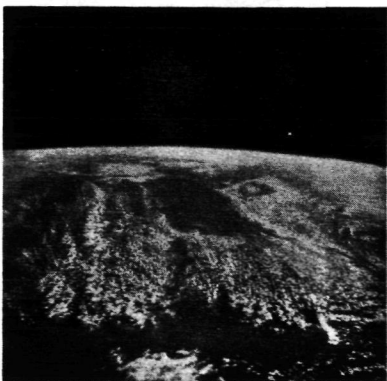
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AST-20-1633



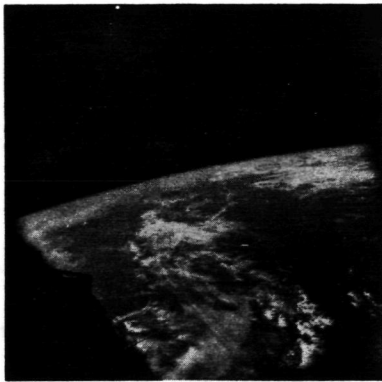
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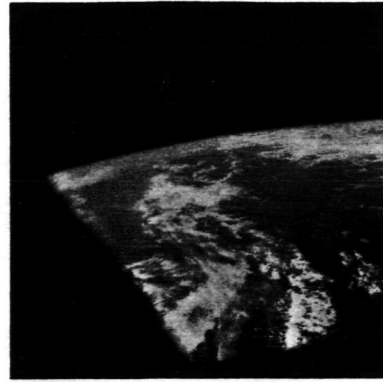
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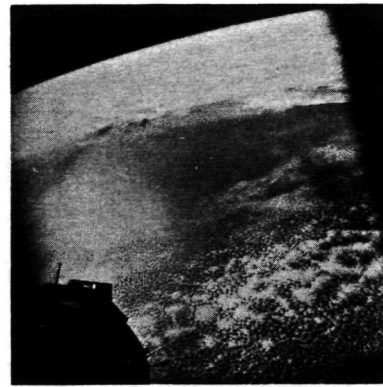
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AST-20-1638



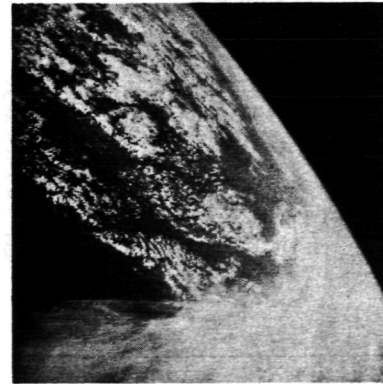
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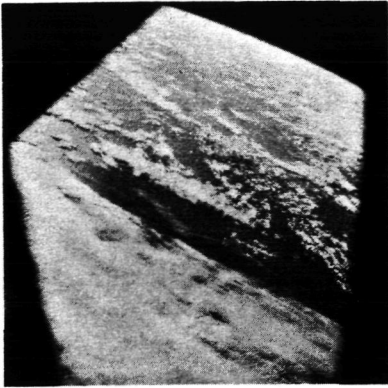
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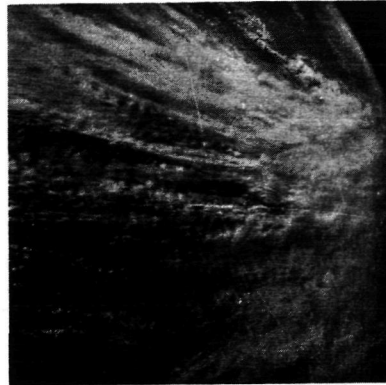
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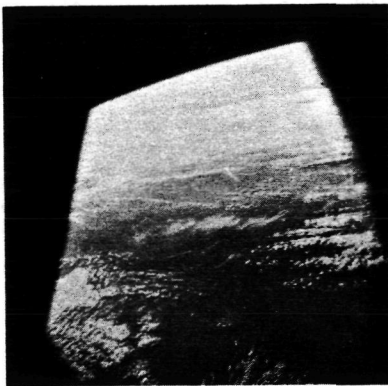
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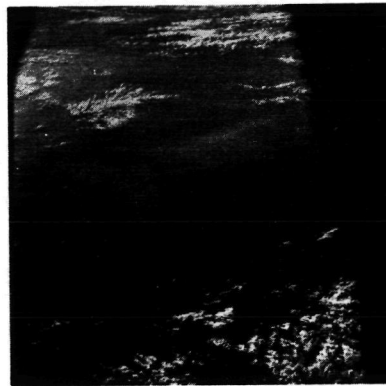
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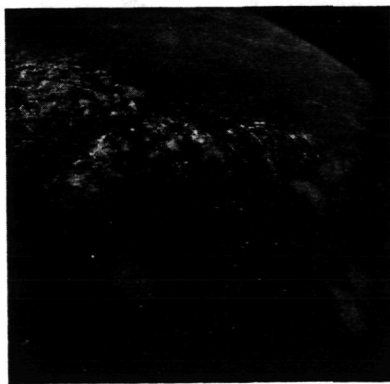
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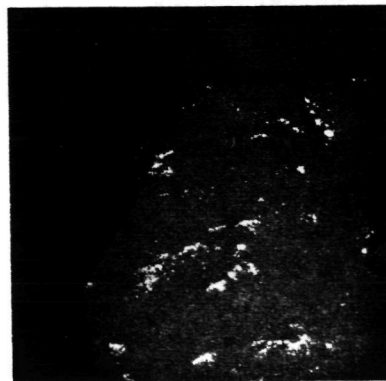
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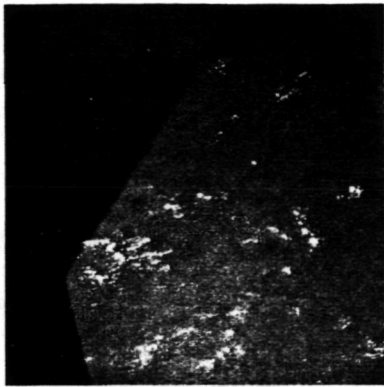
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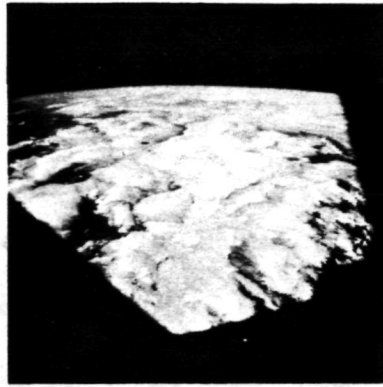
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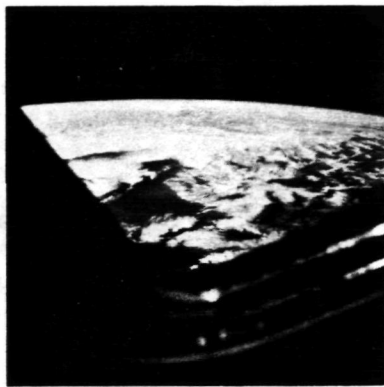
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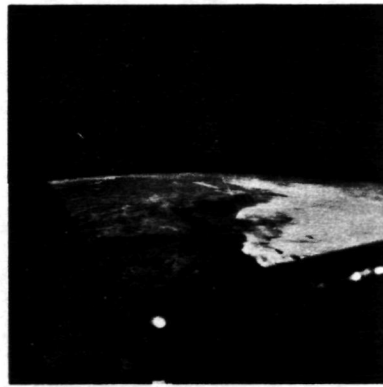
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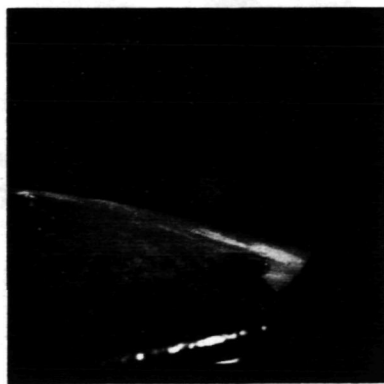
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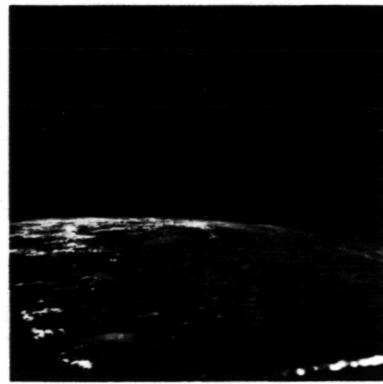
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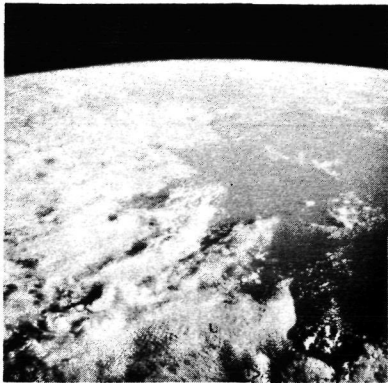
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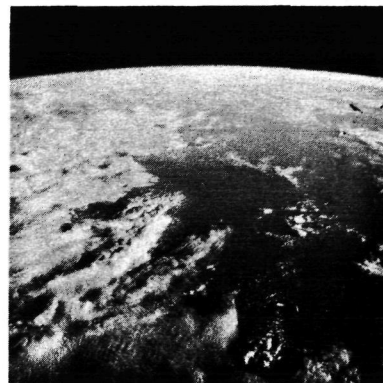
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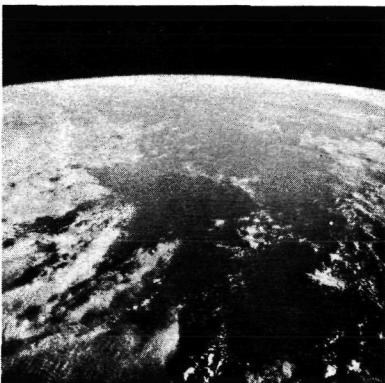
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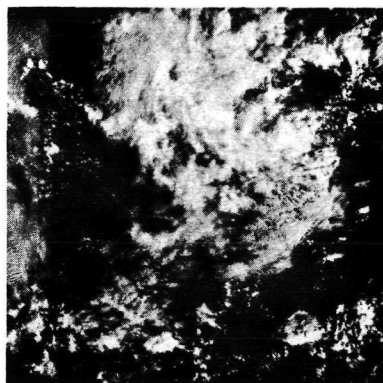
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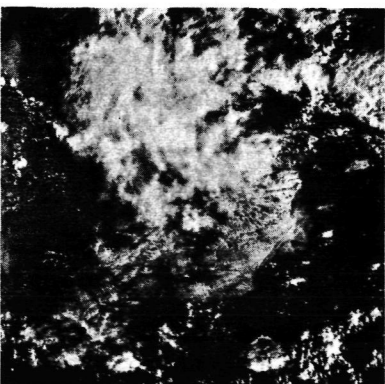
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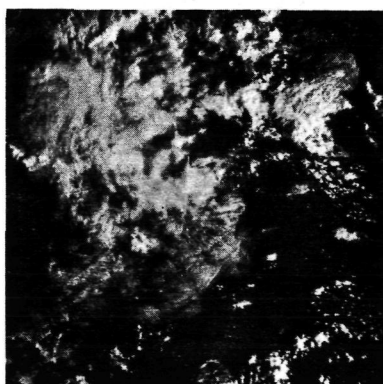
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AST-20-1658



AST-20-1659



AST-20-1660



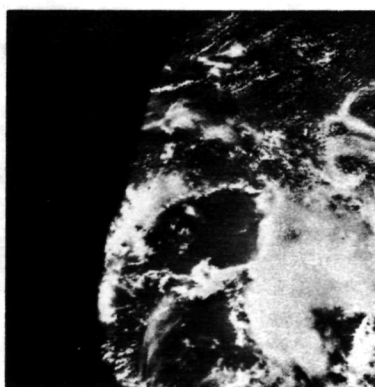
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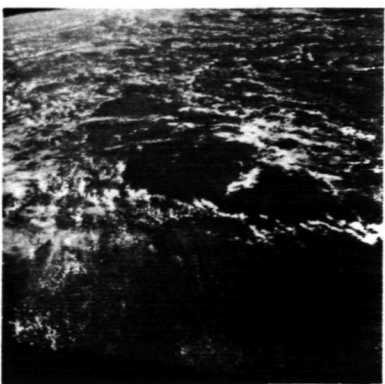
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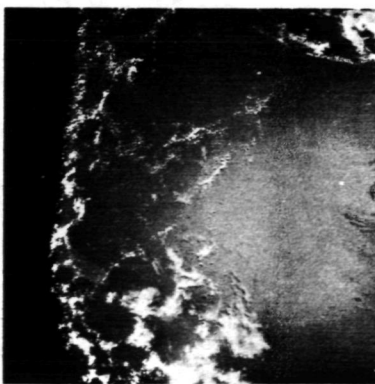
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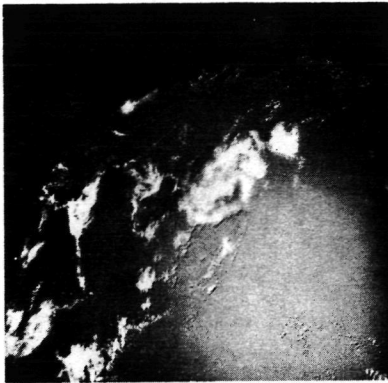
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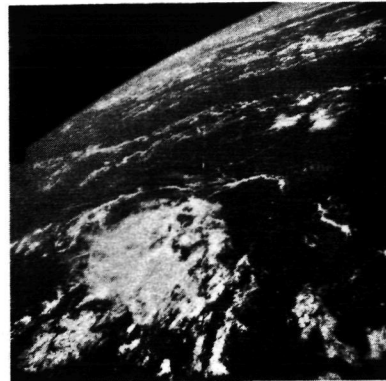
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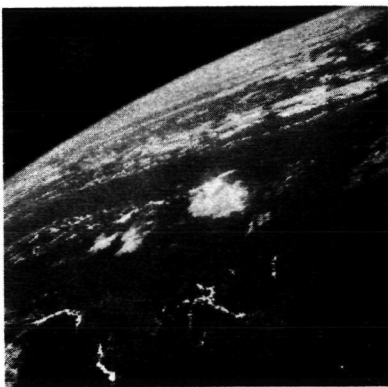
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AST-20-1667



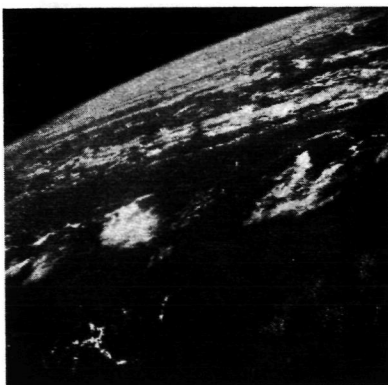
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AST-20-1669



AST-20-1670



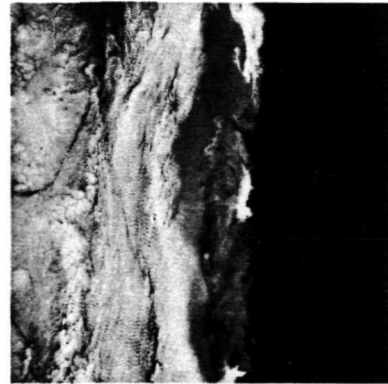
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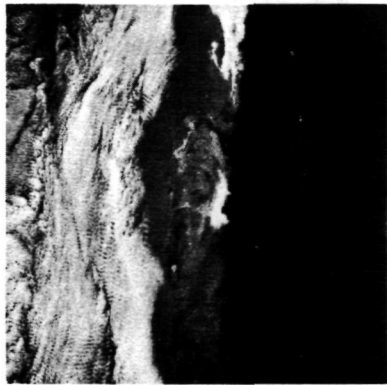
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AST-20-1673



AST-21-1674



AST-21-1675



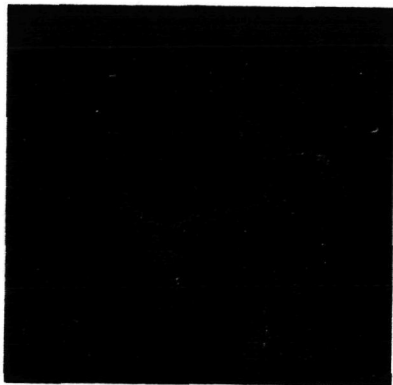
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AST-21-1677



AST-21-1678



AST-21-1680



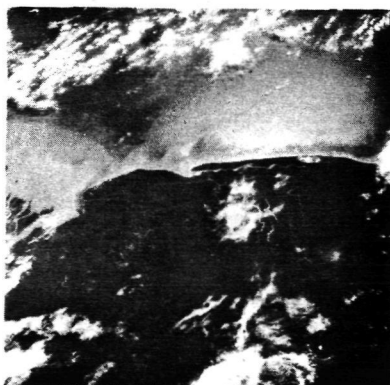
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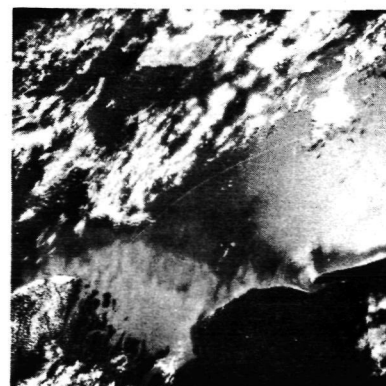
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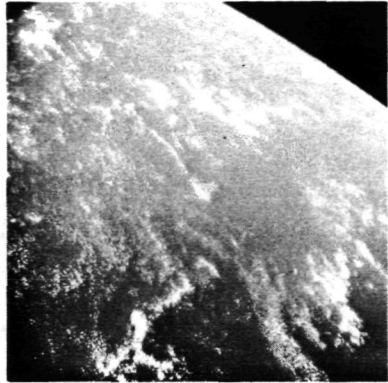
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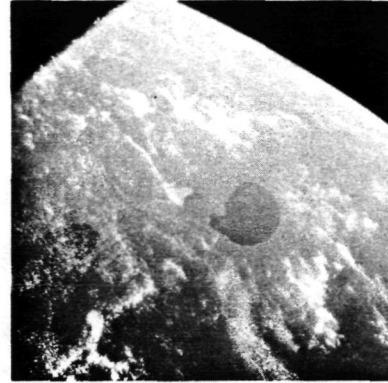
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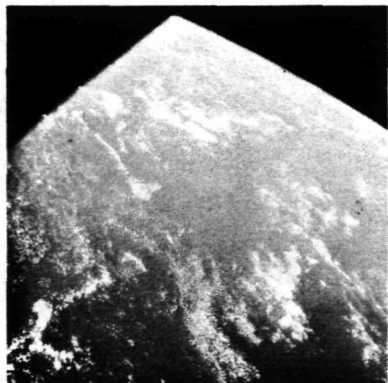
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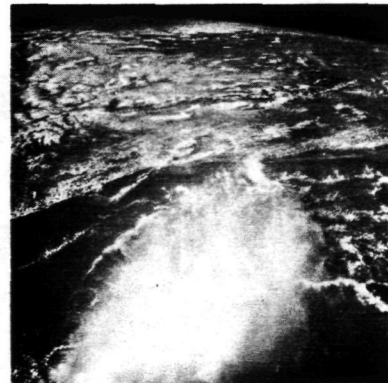
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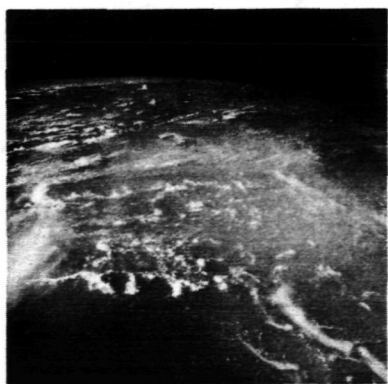
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AST-21-1688



AST-21-1689



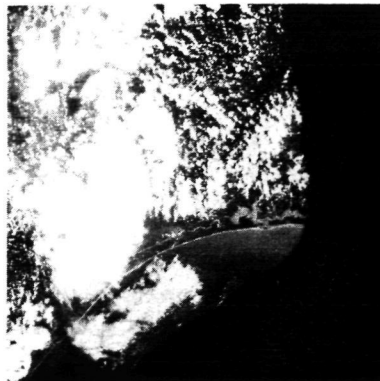
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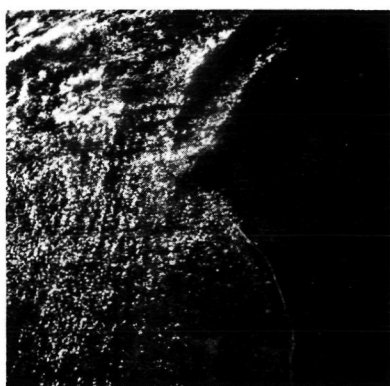
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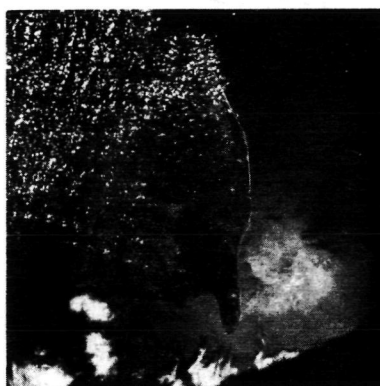
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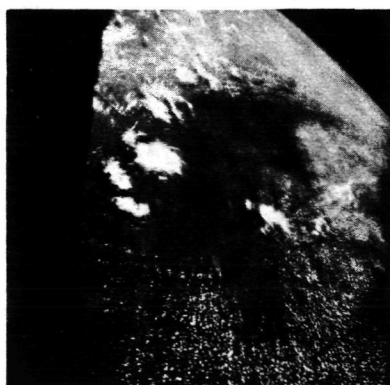
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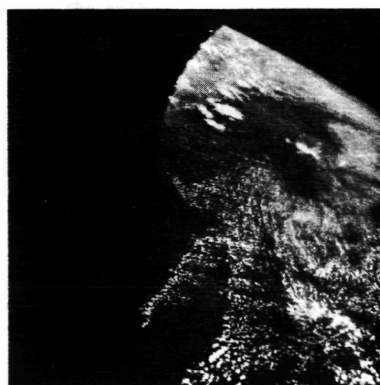
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AST-21-1695



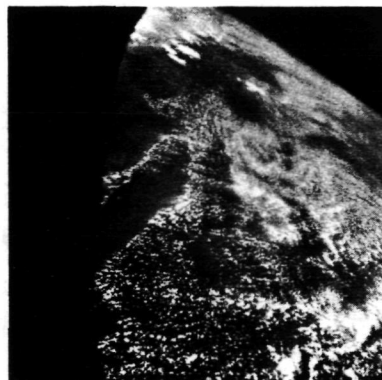
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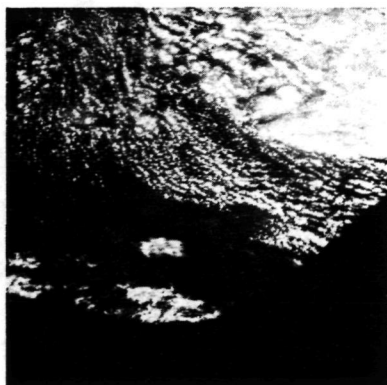
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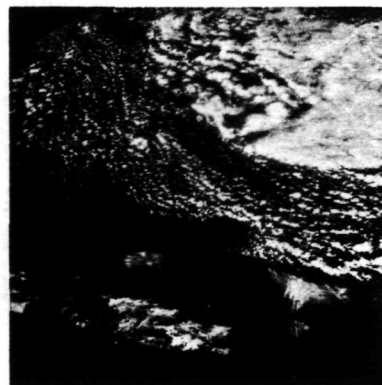
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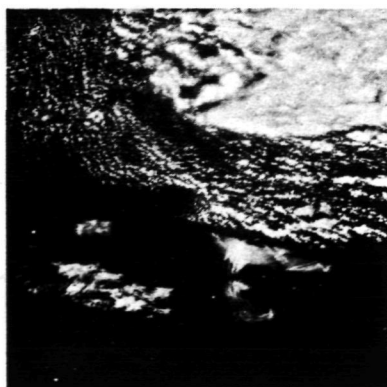
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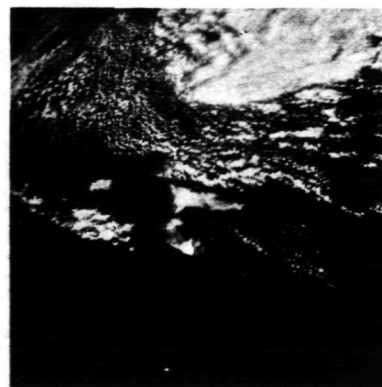
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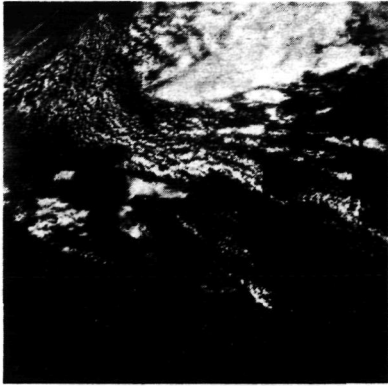
AST-21-1701



AST-21-1702



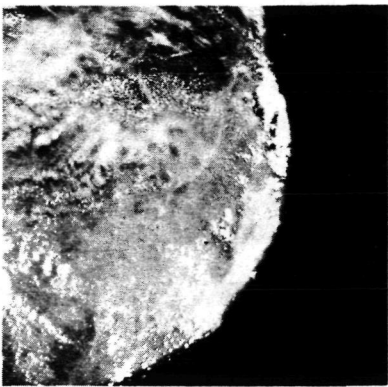
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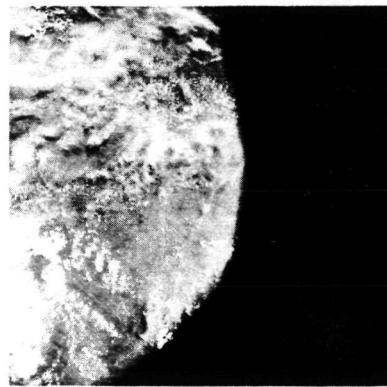
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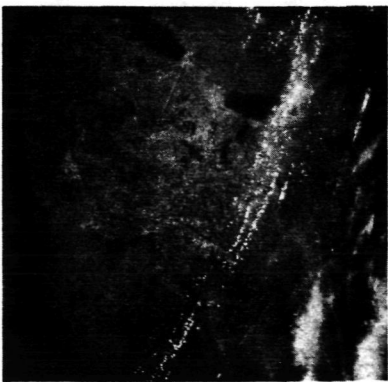
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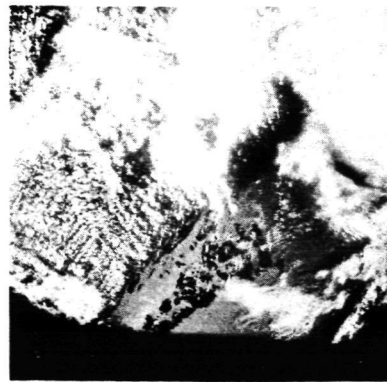
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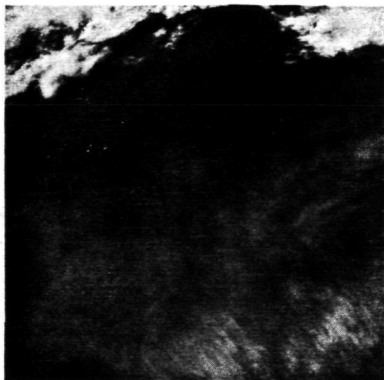
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AST-21-1723



AST-21-1724



AST-21-1725



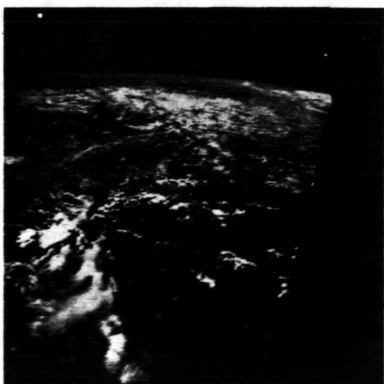
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AST-21-1727



AST-21-1728



AST-21-1729



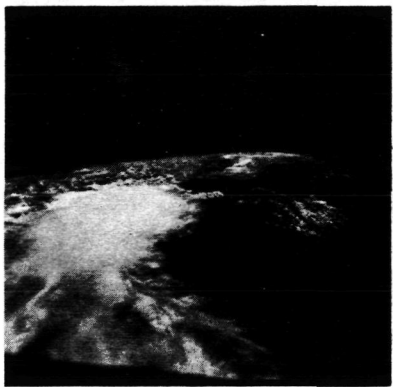
AST-21-1730



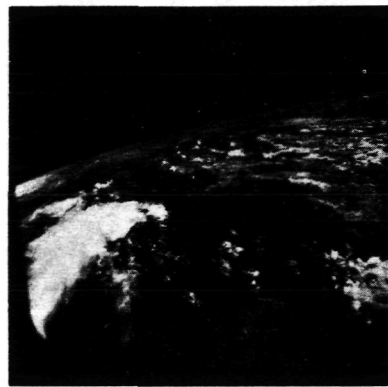
AST-21-1731



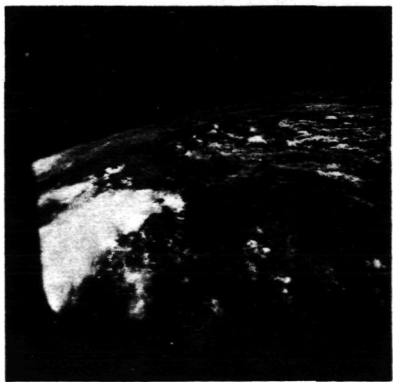
AST-21-1732



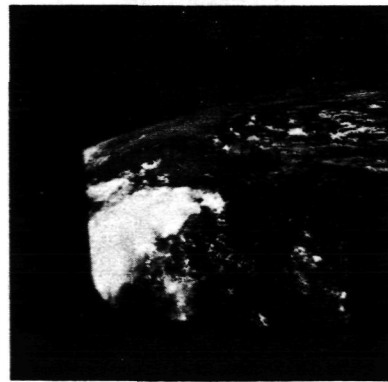
AST-21-1733



AST-21-1734



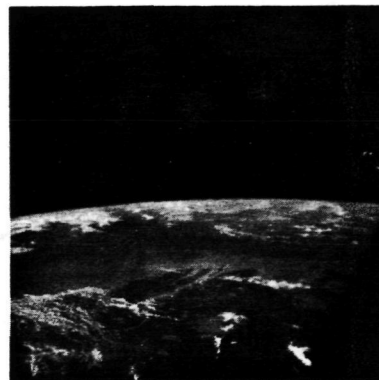
AST-21-1735



AST-21-1736



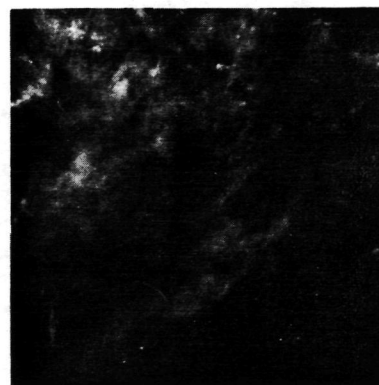
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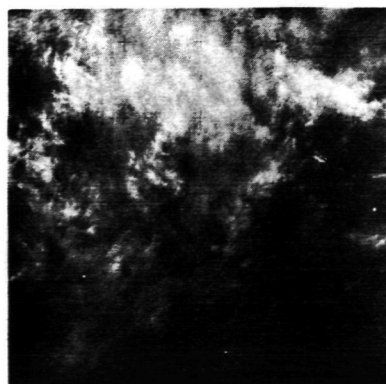
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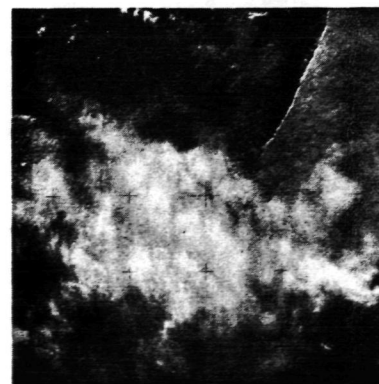
AST-21-1739



AST-22-1744



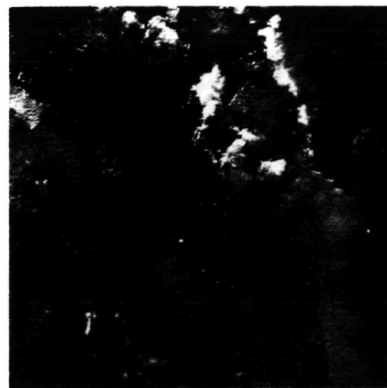
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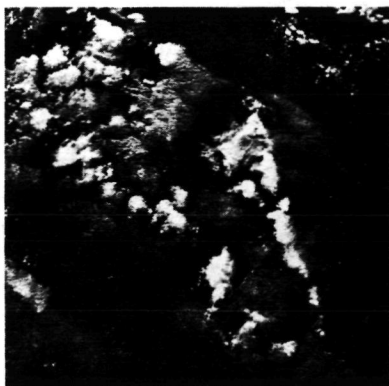
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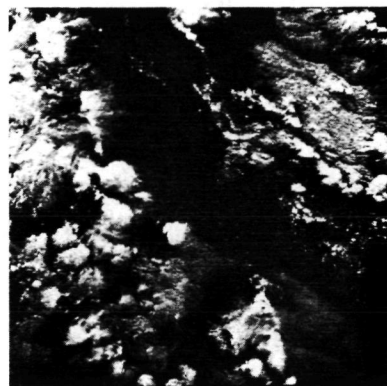
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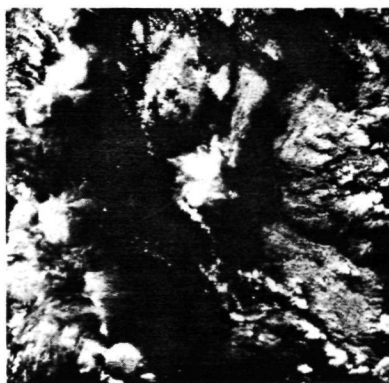
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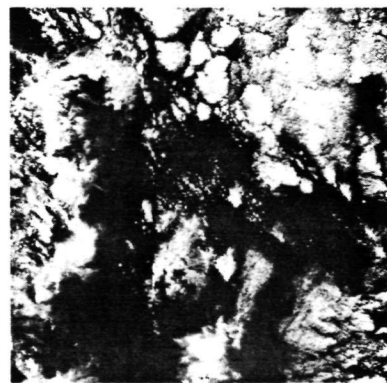
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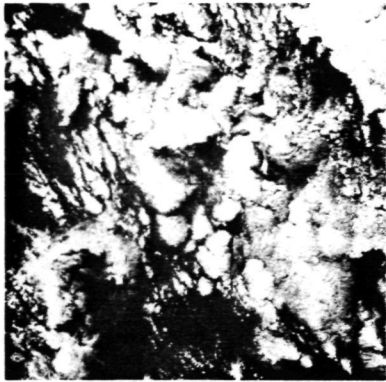
AST-22-1750



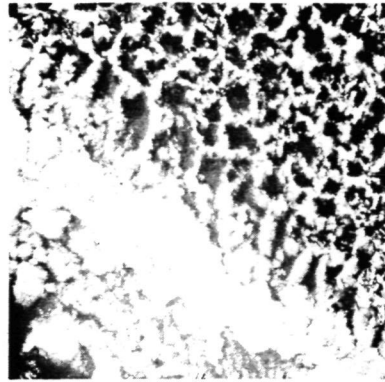
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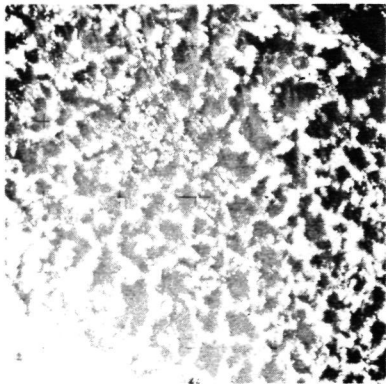
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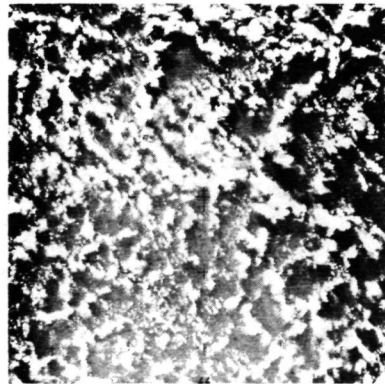
AST-22-1753



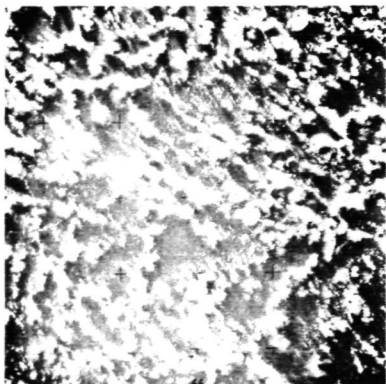
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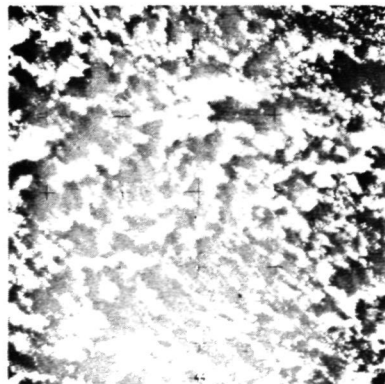
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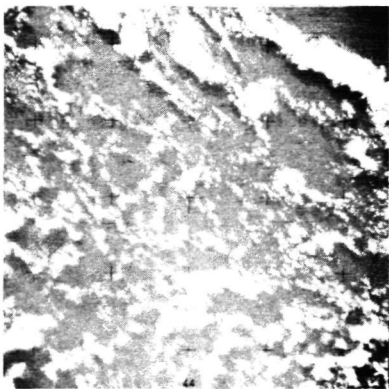
AST-22-1756



AST-22-1757



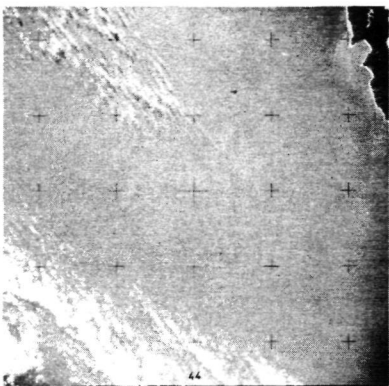
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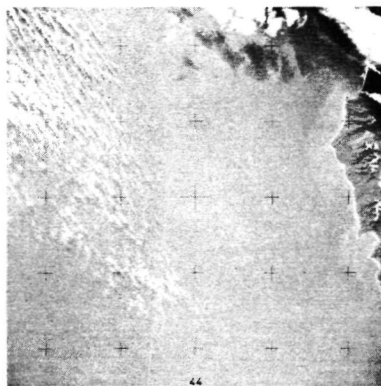
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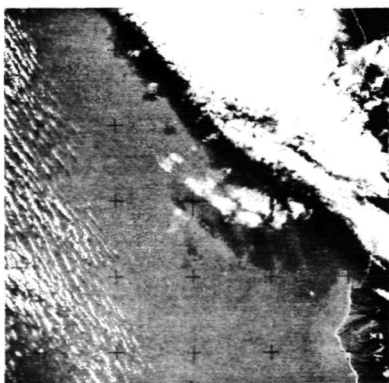
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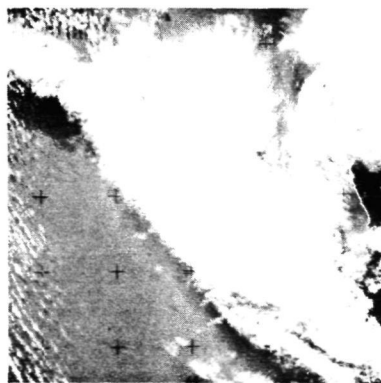
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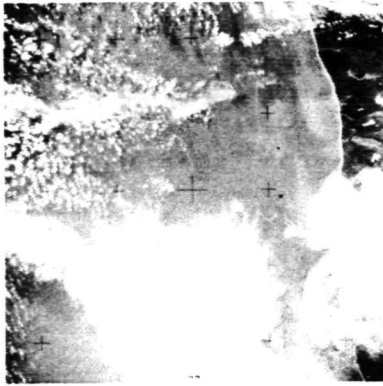
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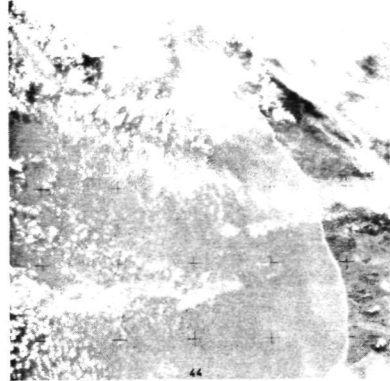
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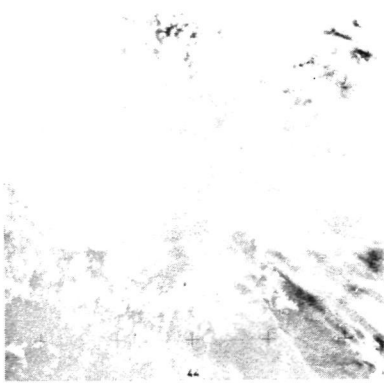
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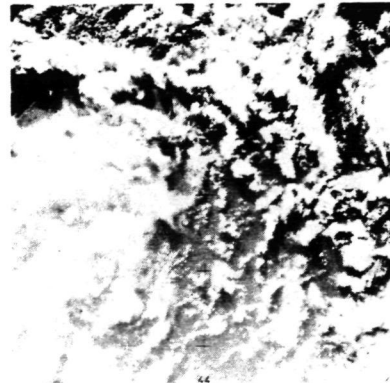
AST-22-1765



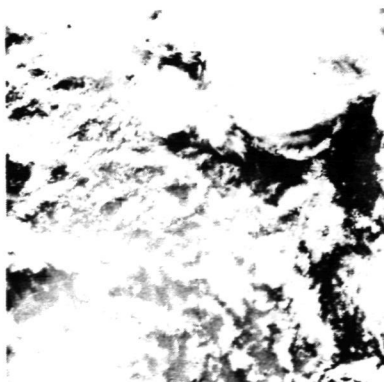
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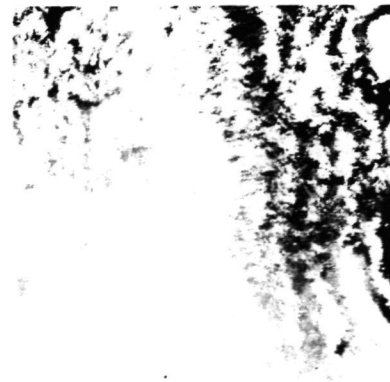
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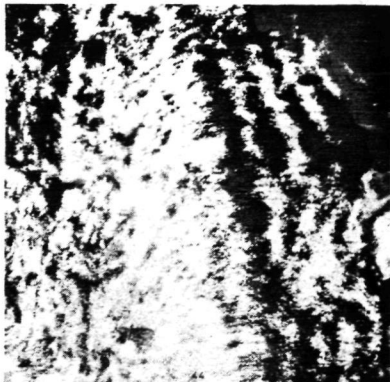
AST-22-1771



AST-22-1772



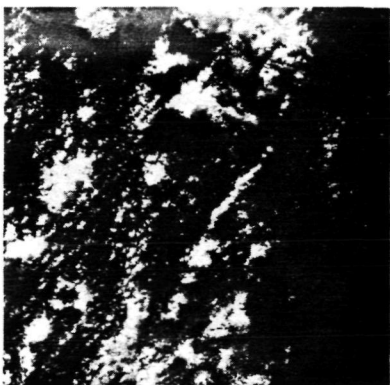
AST-22 1775



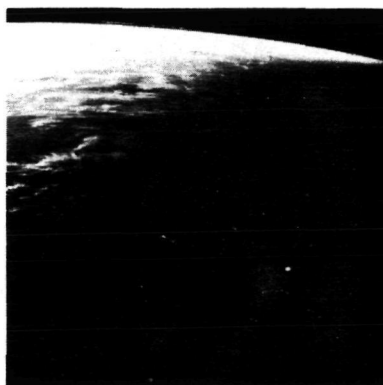
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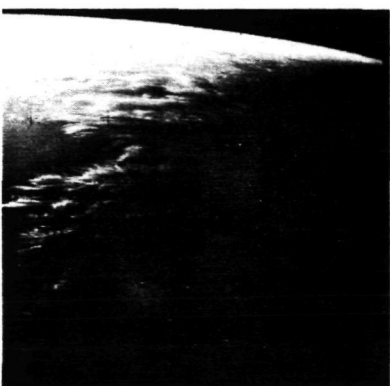
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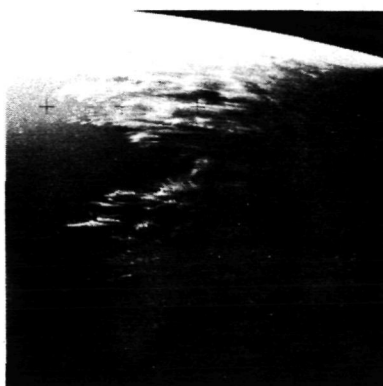
AST-22-1778



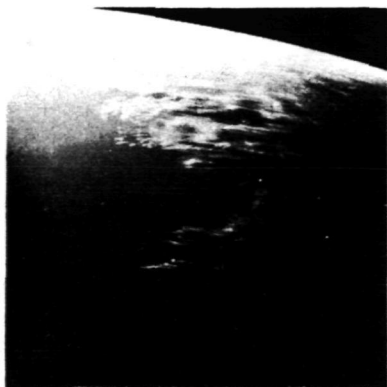
AST-22-1783



AST-22-1784



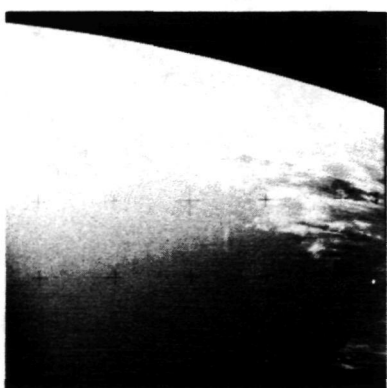
AST-22-1785



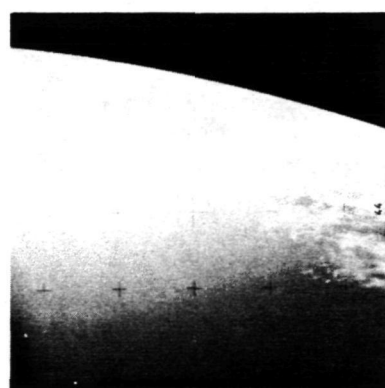
AST-22-1786



AST-22-1787



AST-22-1788



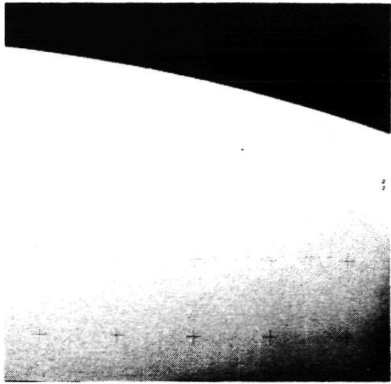
AST-22-1789



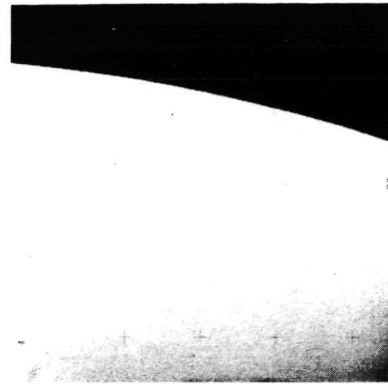
AST-22-1790



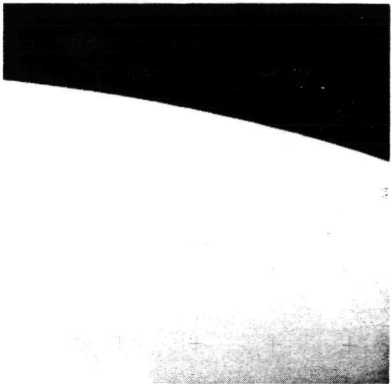
AST-22 1791



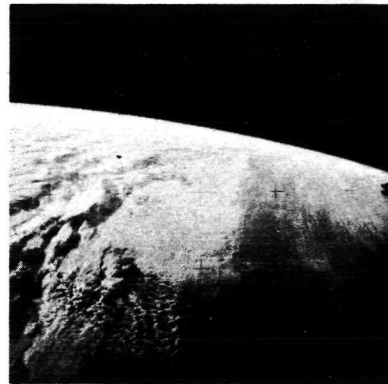
AST-22-1792



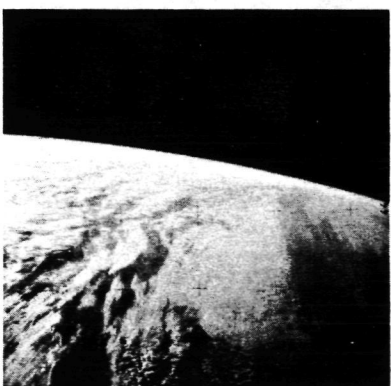
AST-22-1793



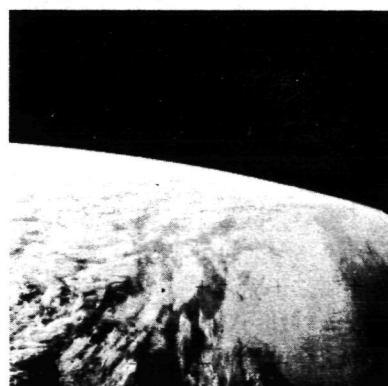
AST-22-1794



AST-22-1795



AST-22-1796



AST-22-1797



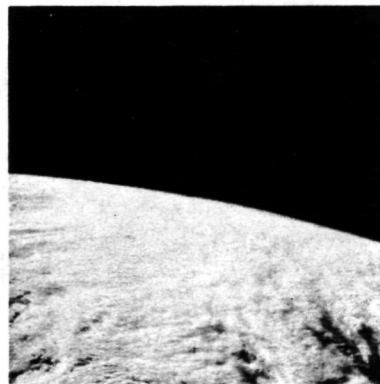
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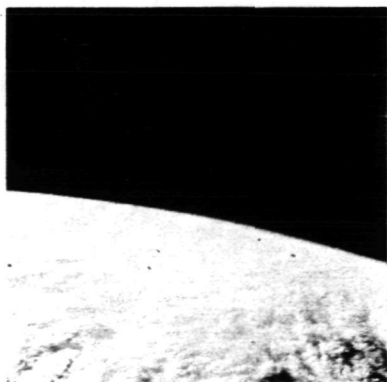
AST-22-1799



AST-22-1800



AST-22-1801



AST-22-1802



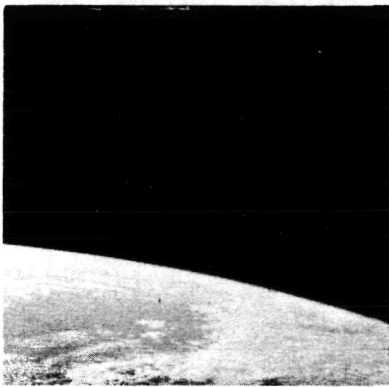
AST-22-1803



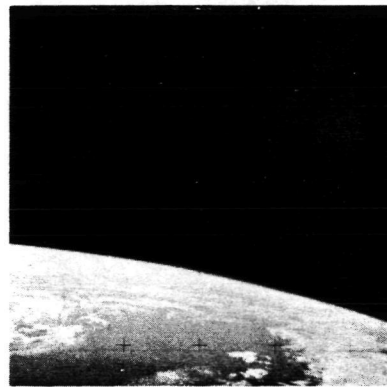
AST-22-1804



AST-22-1805



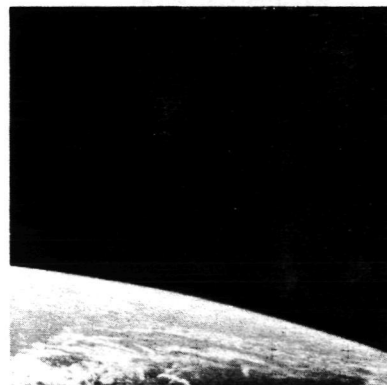
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AST-22-1807



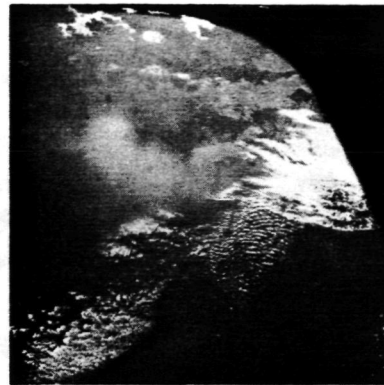
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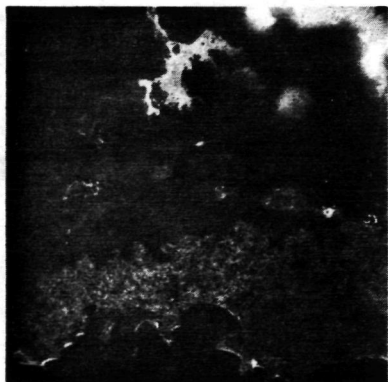
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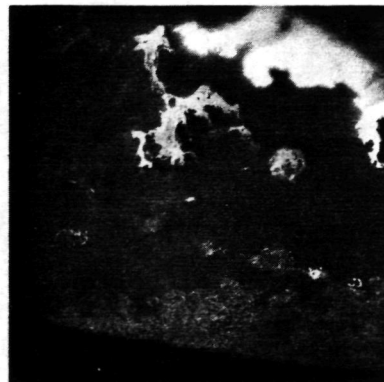
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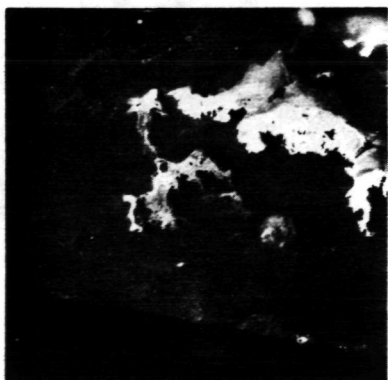
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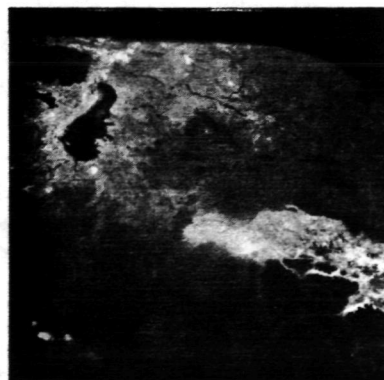
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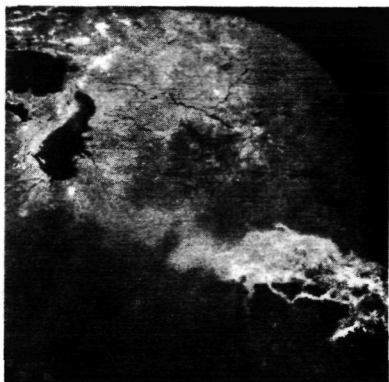
AST-23-1881



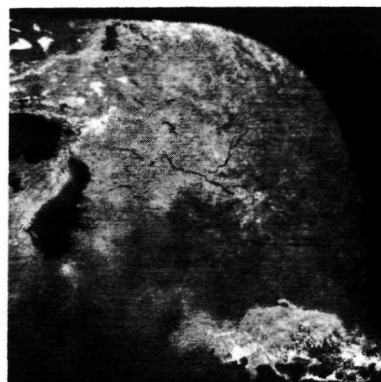
AST-23-1882



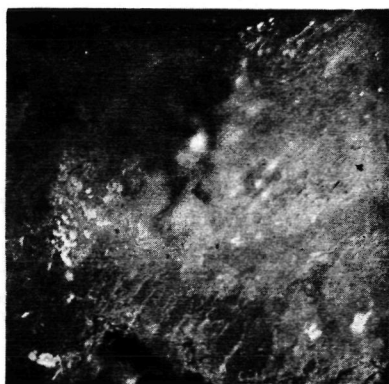
AST-23-1883



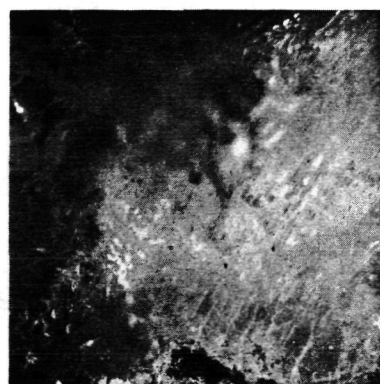
AST-23-1884



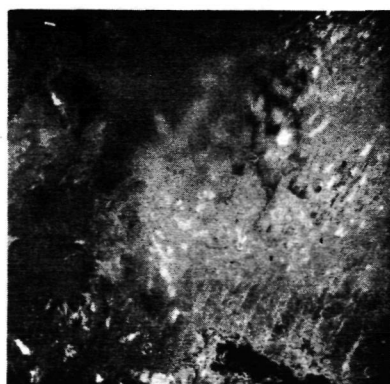
AST-23-1885



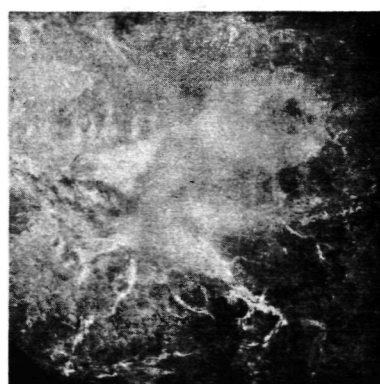
AST-23-1886



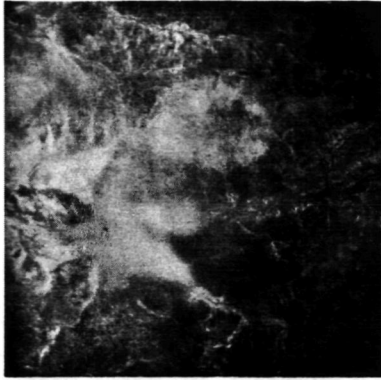
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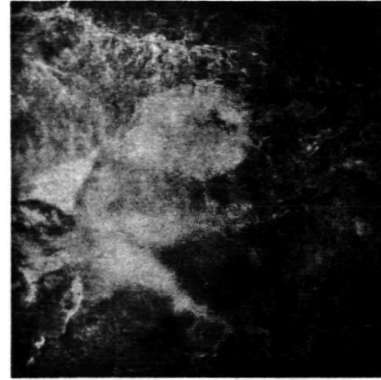
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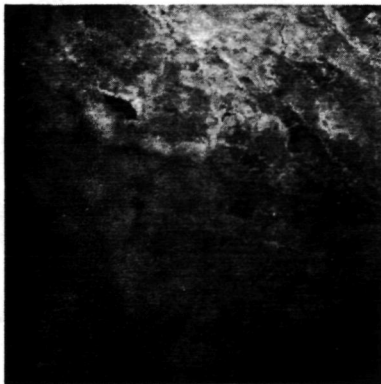
AST-23-1889



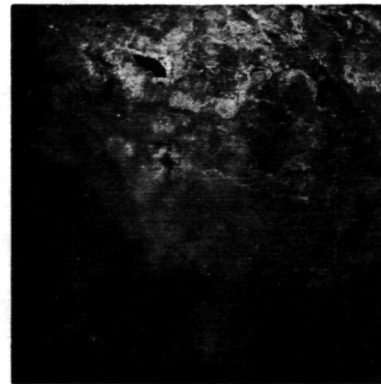
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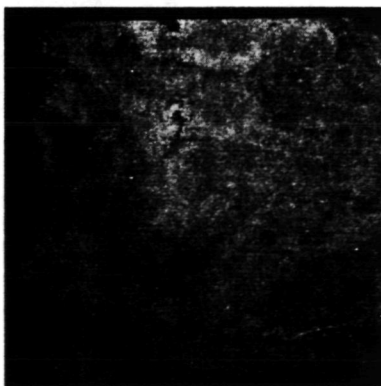
AST-23-1891



AST-23-1892



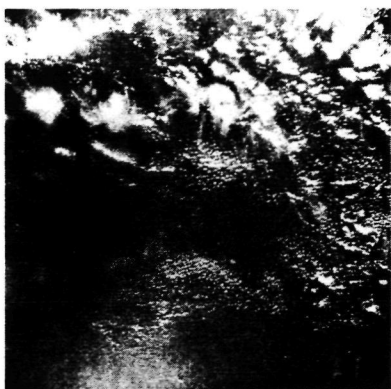
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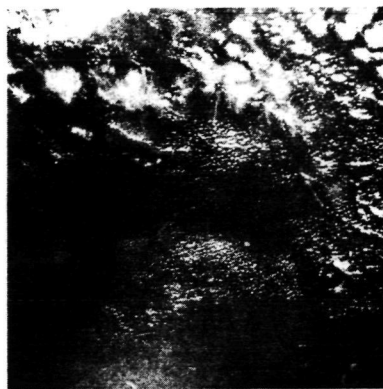
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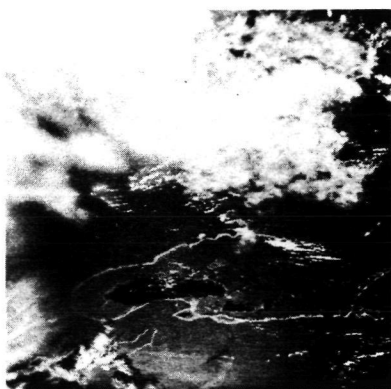
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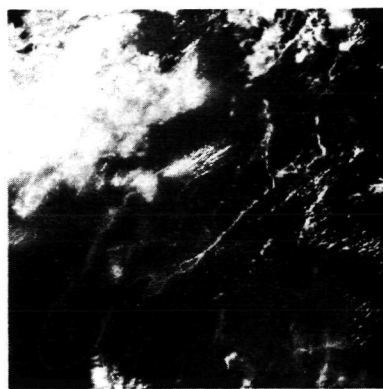
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AST-23-1897



AST-23-1898



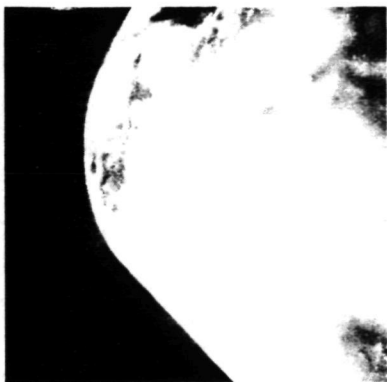
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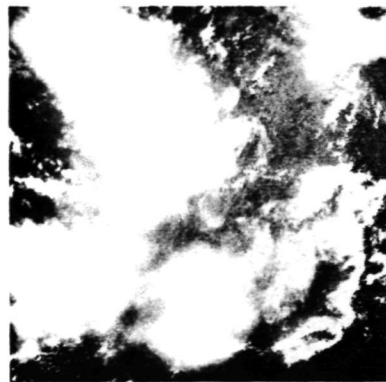
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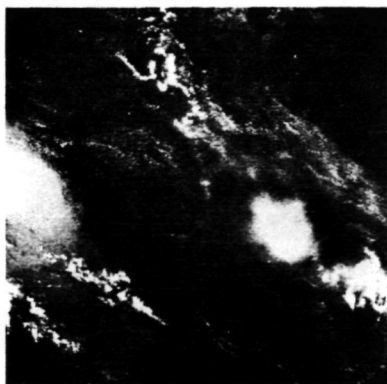
AST-23-1901



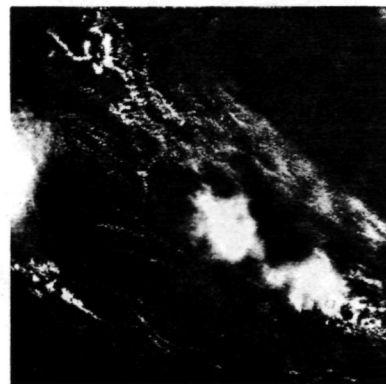
AST-23-1902



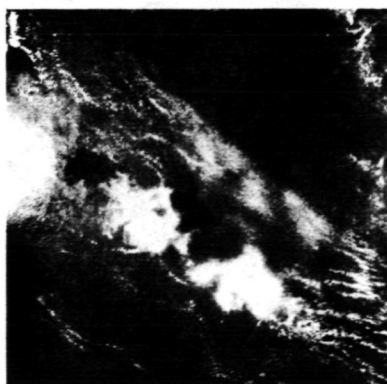
AST-23-1903



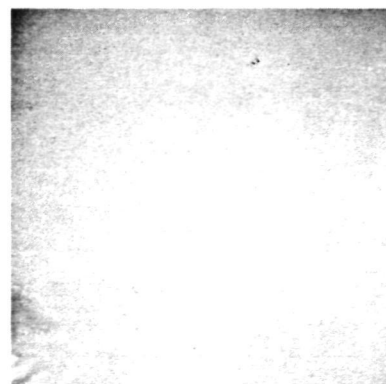
AST-23-1904



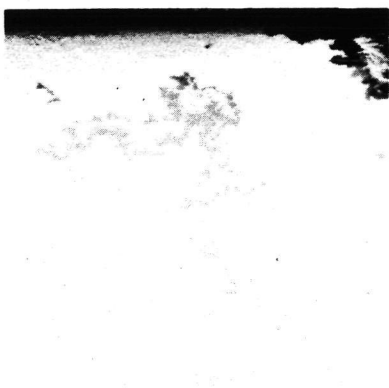
AST-23-1905



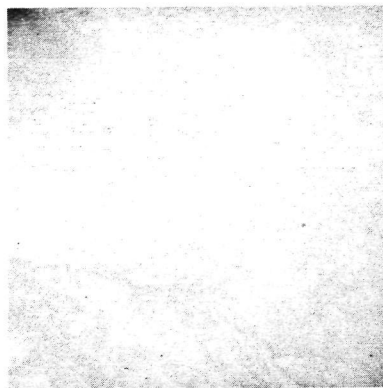
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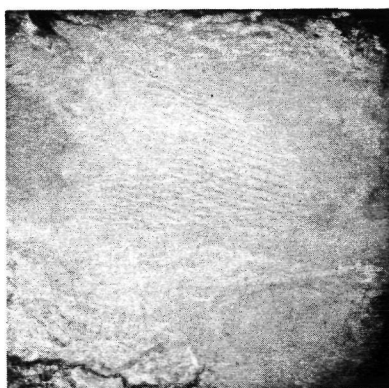
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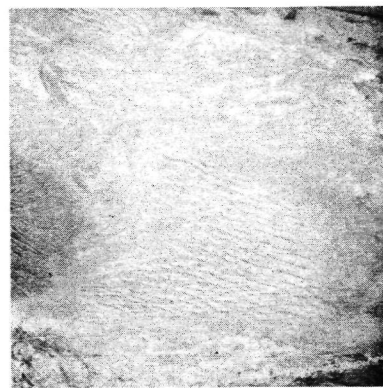
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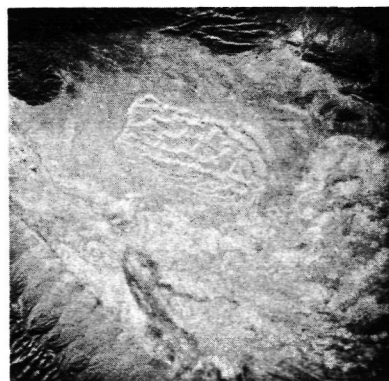
AST-23-1909



AST-23-1910



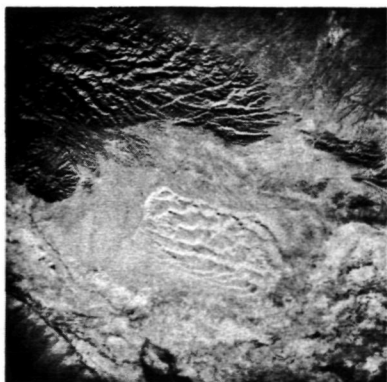
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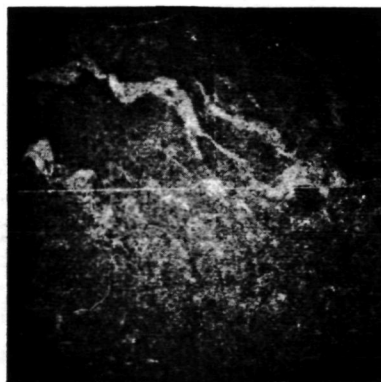
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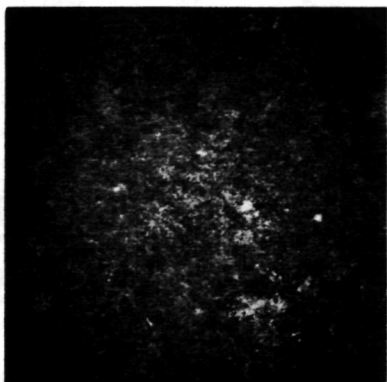
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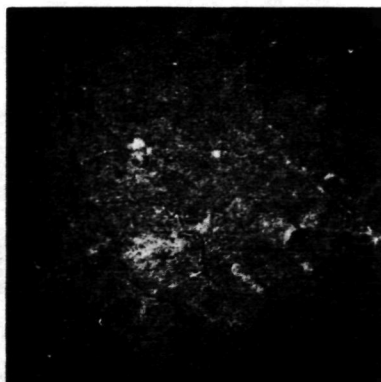
AST-23-1914



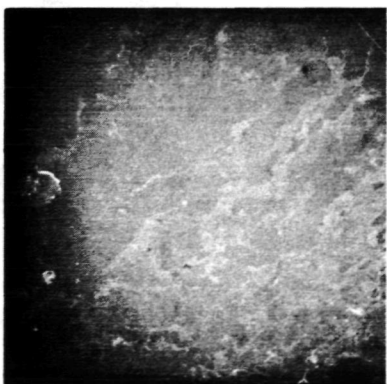
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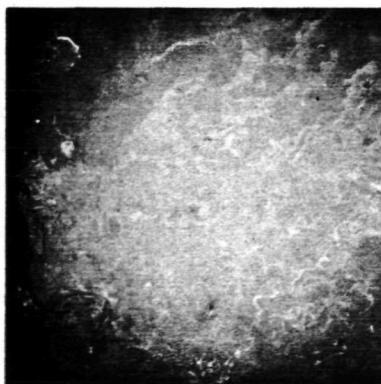
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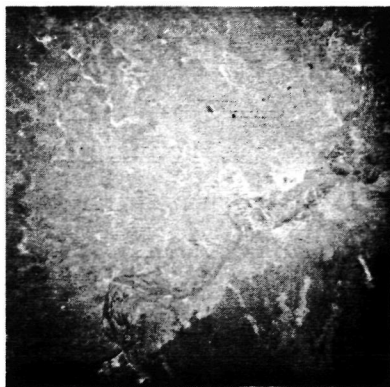
AST-23-1917



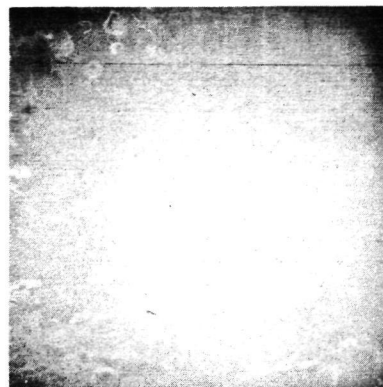
AST-23-1918



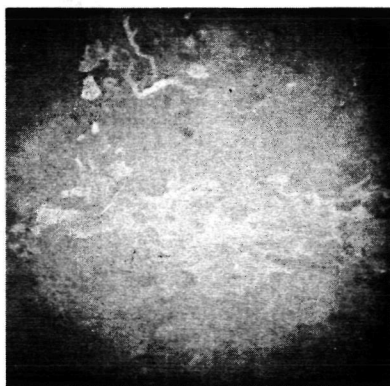
AST-23-1919



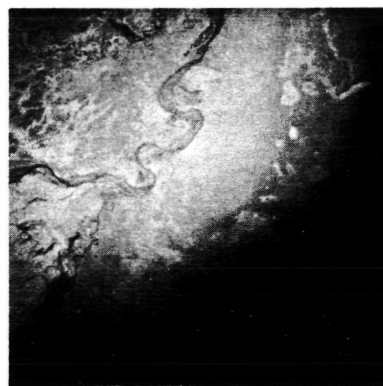
AST-23-1920



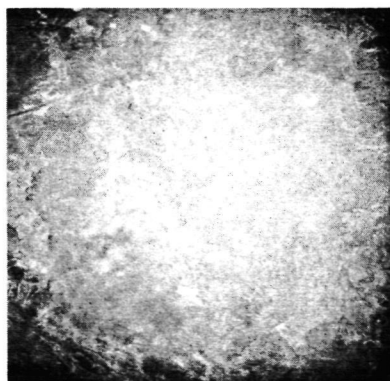
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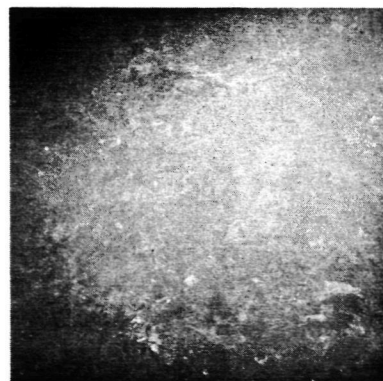
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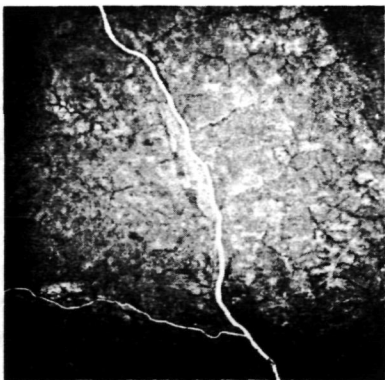
AST-23-1923



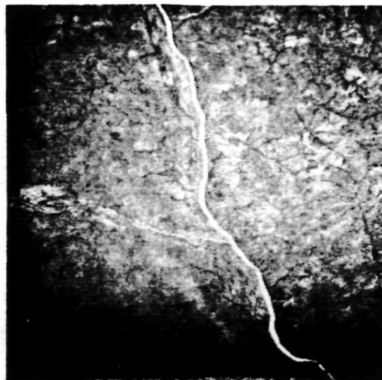
AST-23-1925



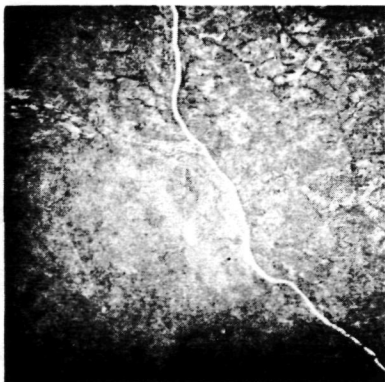
AST-23-1926



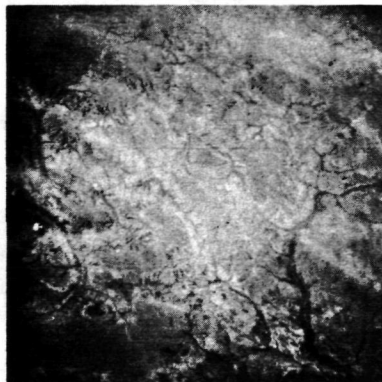
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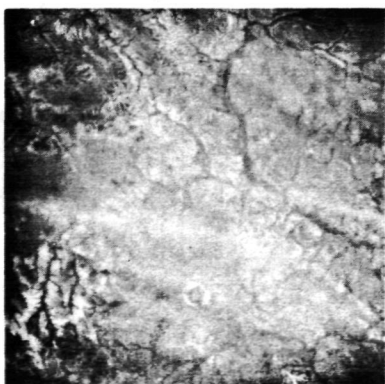
AST-23-1928



AST-23-1929



AST-23-1930



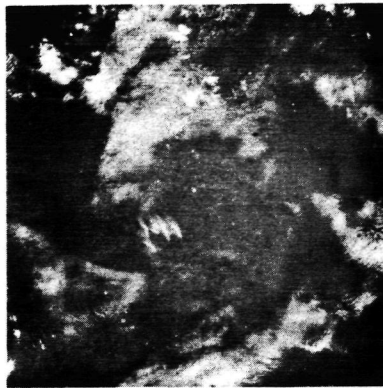
AST-23-1931



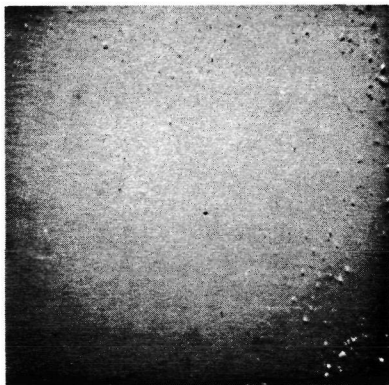
AST-23-1932



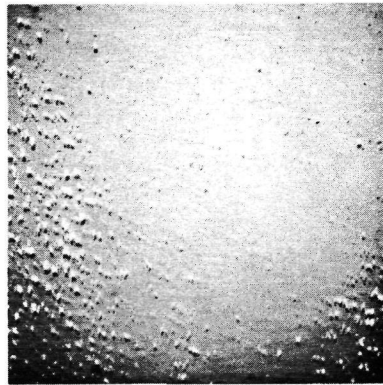
AST-23-1933



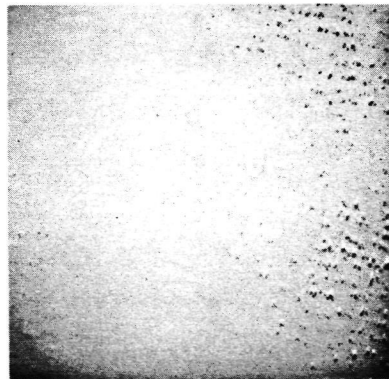
AST-23-1934



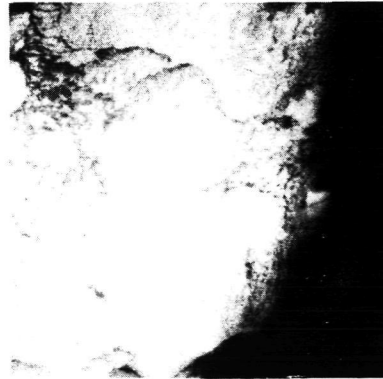
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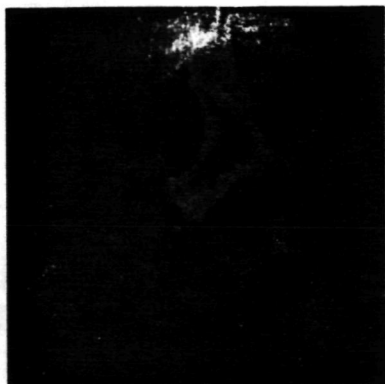
AST-23-1936



AST-23-1937



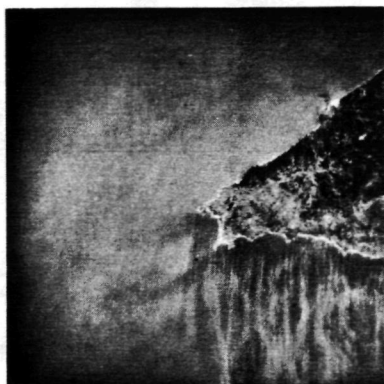
AST-23-1938



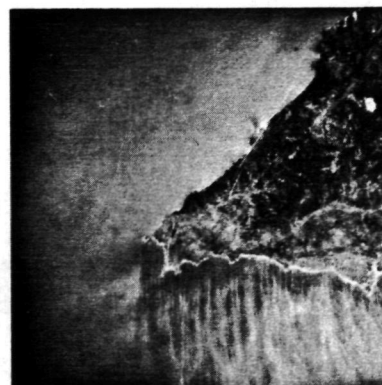
AST-23-1939



AST-23-1940



AST-23-1941



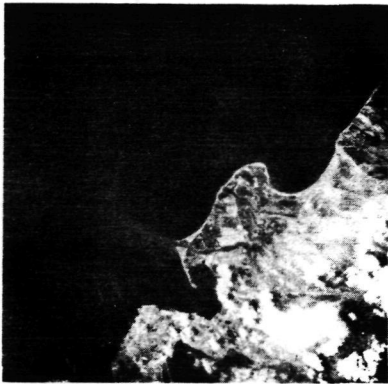
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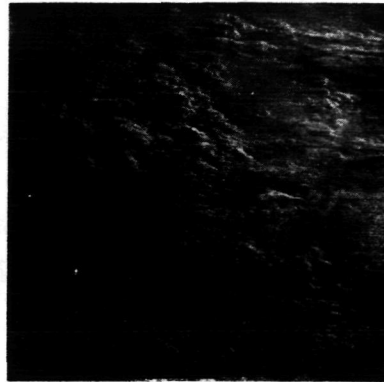
AST-23-1943



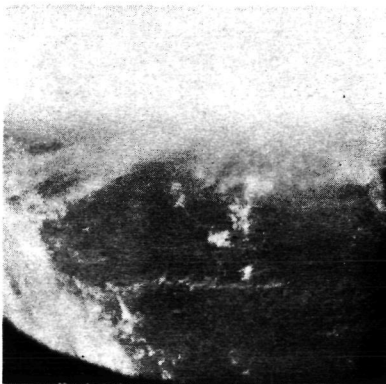
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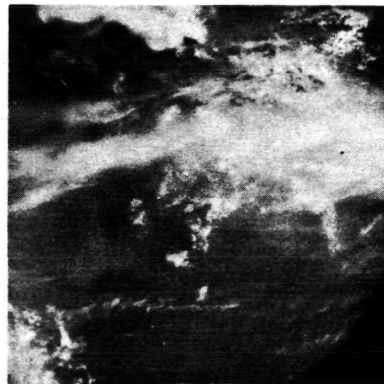
AST-23-1945



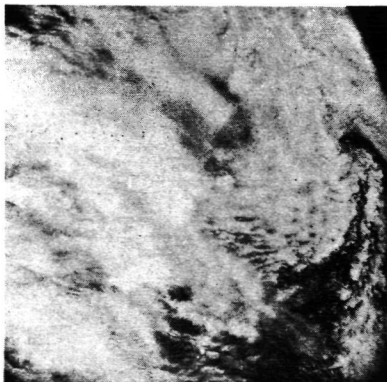
AST-24-1946



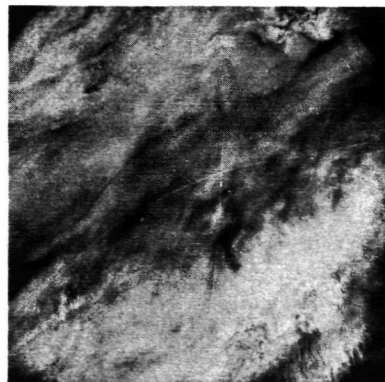
AST-24-1947



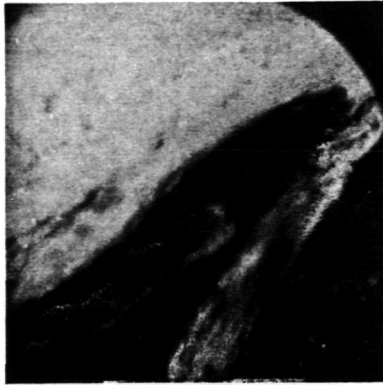
AST-24-1948



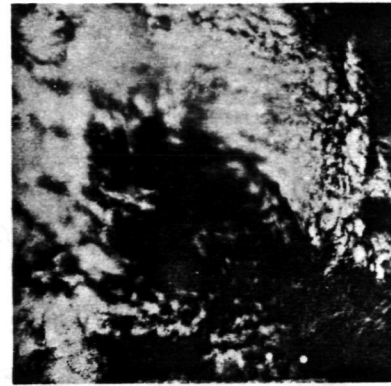
AST-24-1949



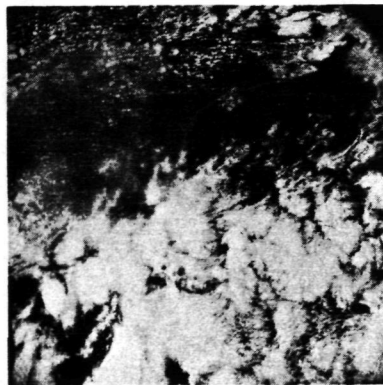
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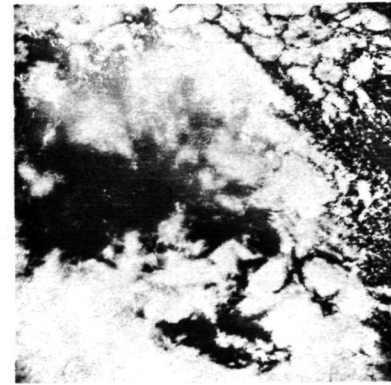
AST-24-1951



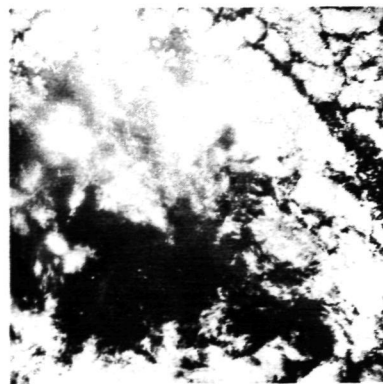
AST-24-1952



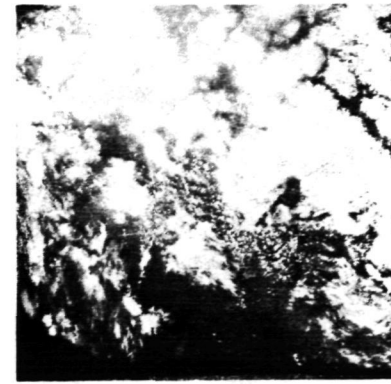
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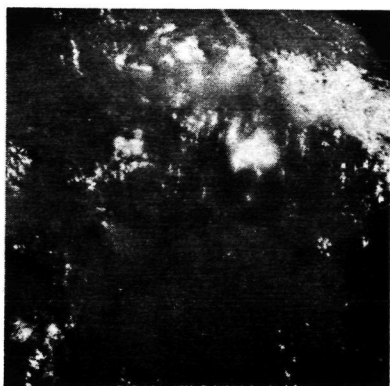
AST-24-1954



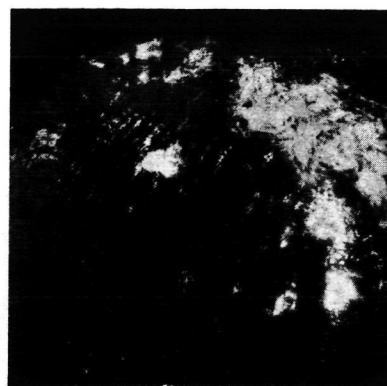
AST-24-1955



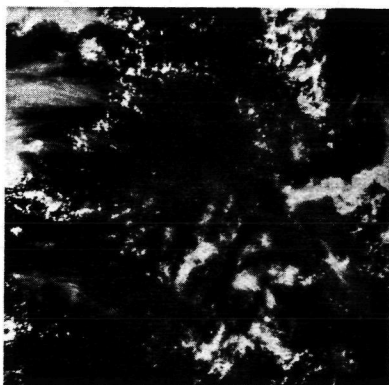
AST-24-1956



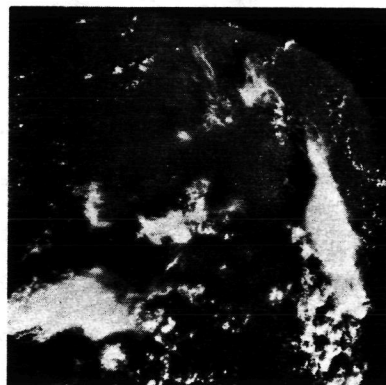
AST-24-1957



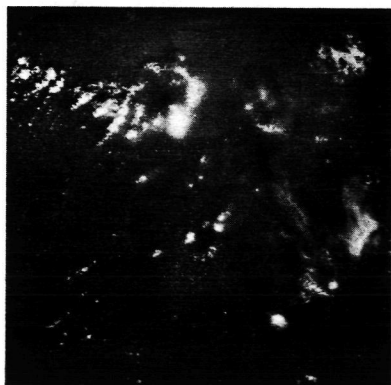
AST-24-1958



AST-24-1959



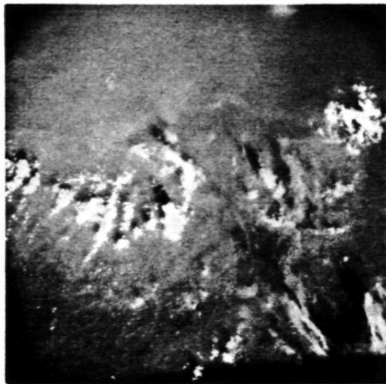
AST-24-1960



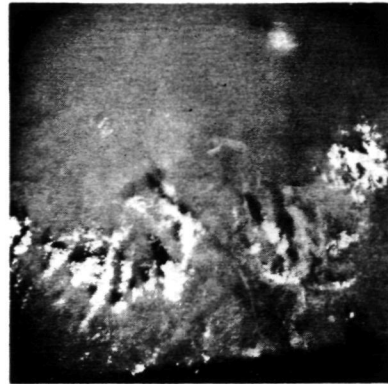
AST-24-1961



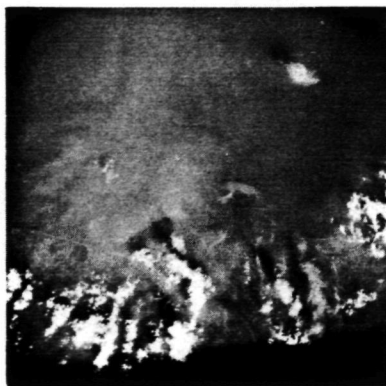
AST-24-1962



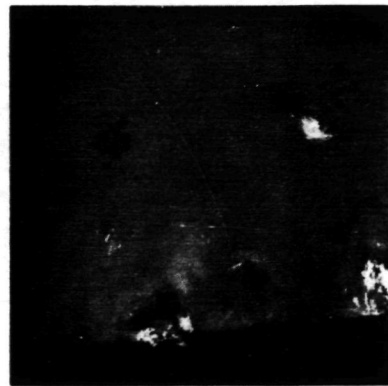
AST-24-1963



AST-24-1964



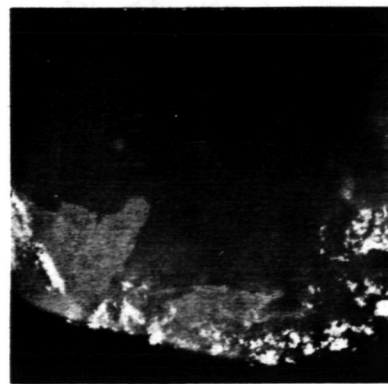
AST-24-1965



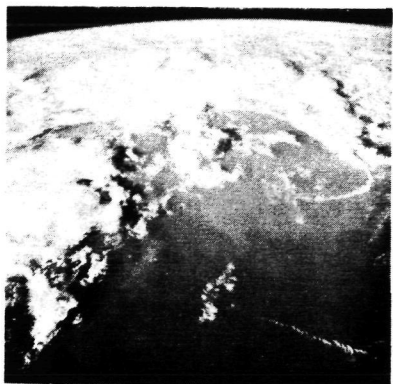
AST-24-1966



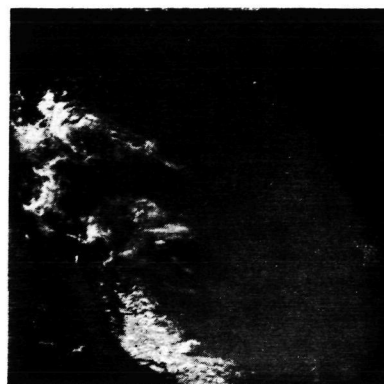
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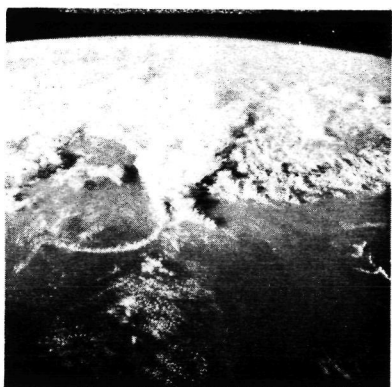
AST-24-1968



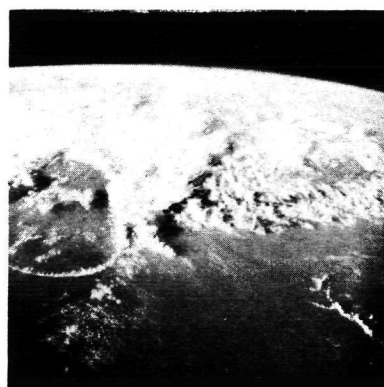
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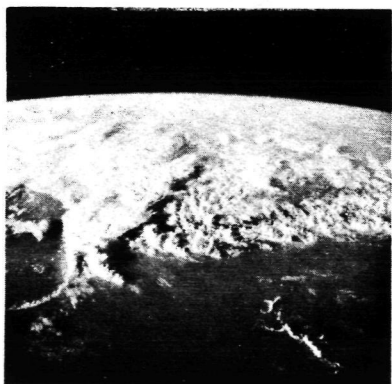
AST-24-1970



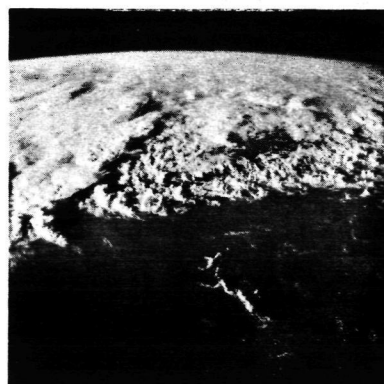
AST-24-1971



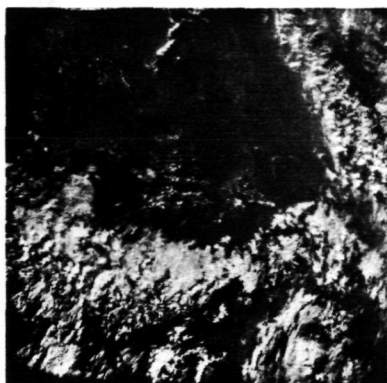
AST-24-1972



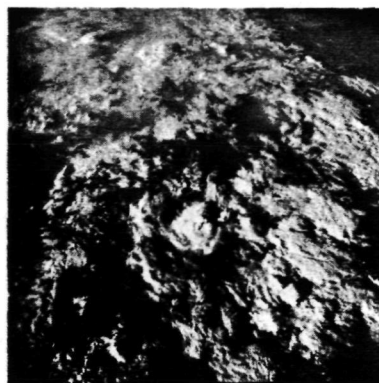
AST-24-1973



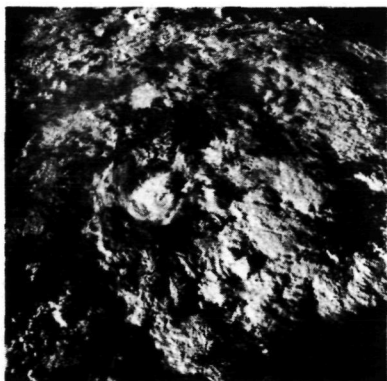
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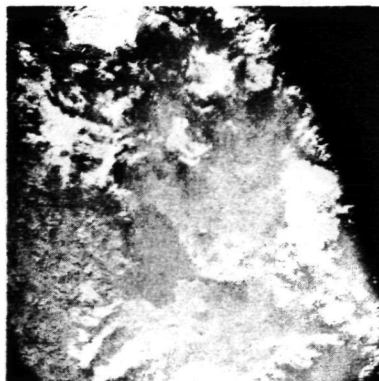
AST-24-1975



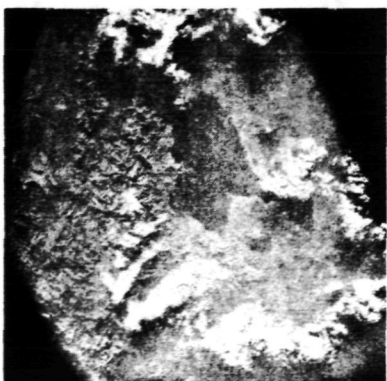
AST-24-1976



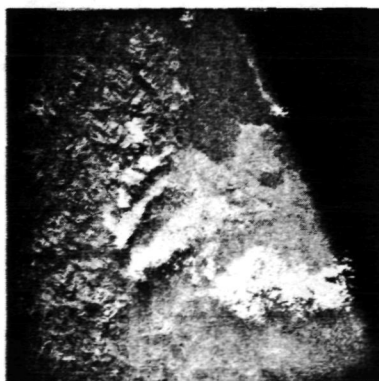
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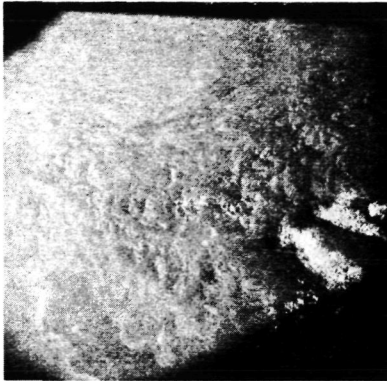
AST-24-1978



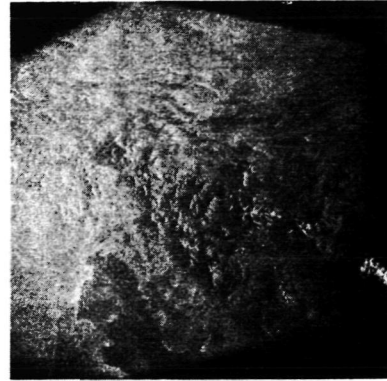
AST-24-1979



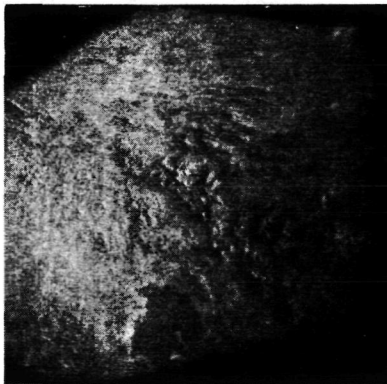
AST-24-1980



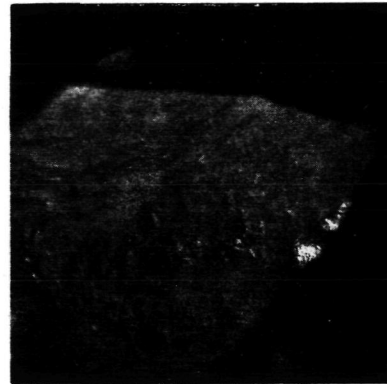
AST-24-1981



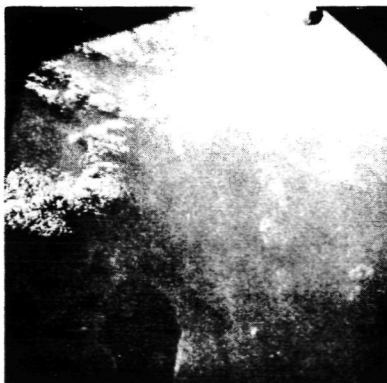
AST-24-1982



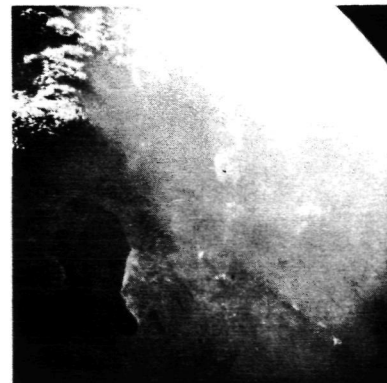
AST-24-1983



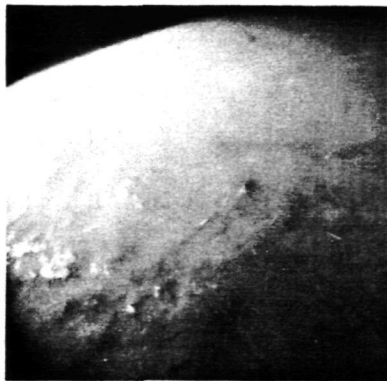
AST-24-1984



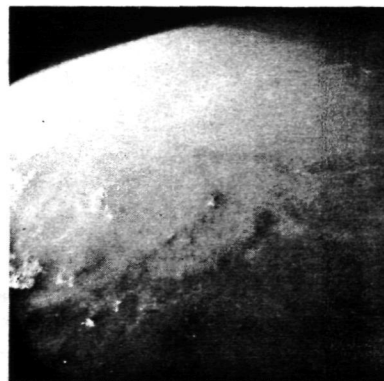
AST-24-1985



AST-24-1986



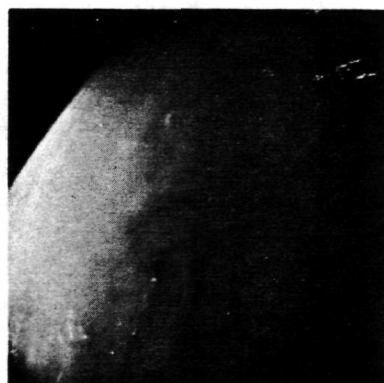
AST-24-1987



AST-24-1988



AST-24-1989



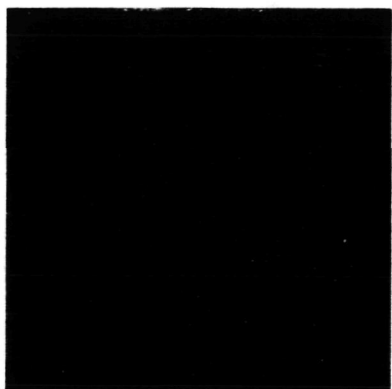
AST-24-1990



AST-24-1991



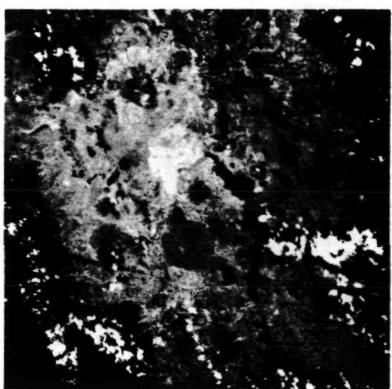
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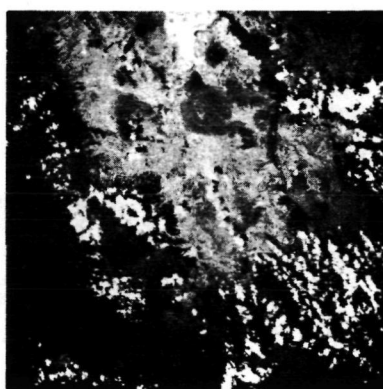
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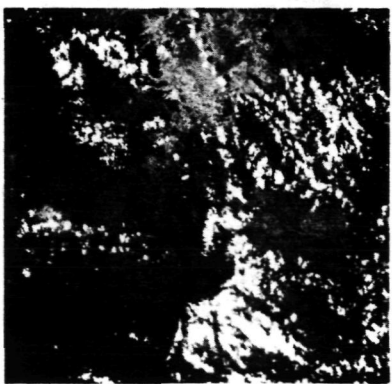
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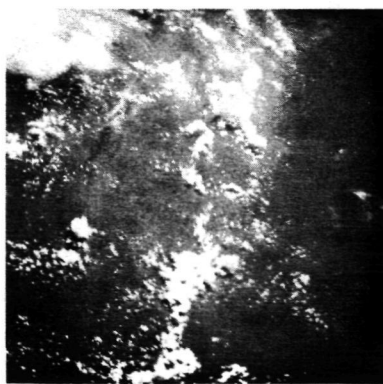
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AST-24-2004



AST-24-2005



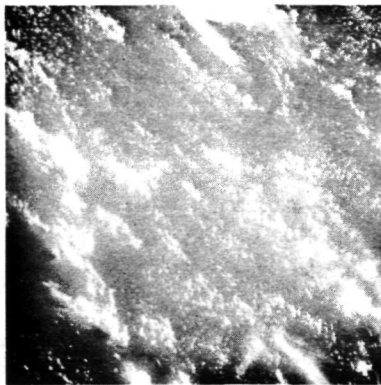
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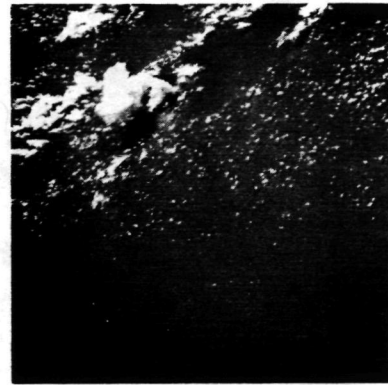
AST-24-2007



AST-24-2008



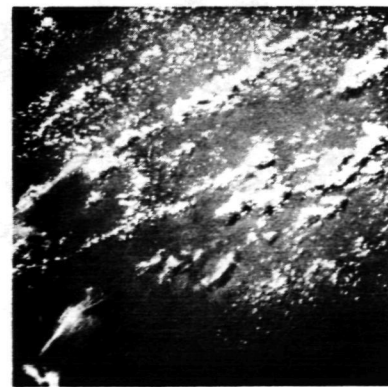
AST-24-2009



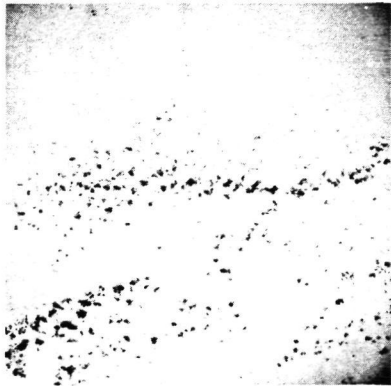
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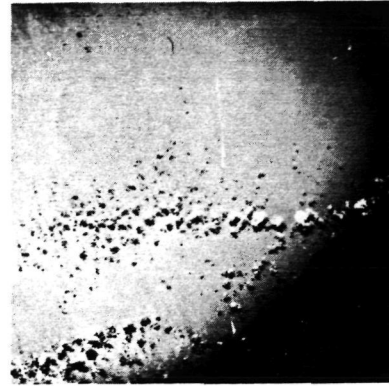
AST-24-2011



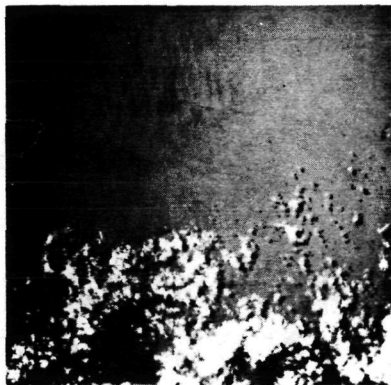
AST-24-2012



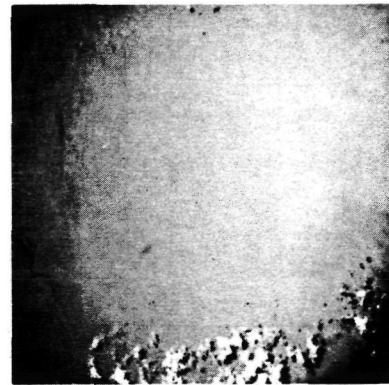
AST-24-2013



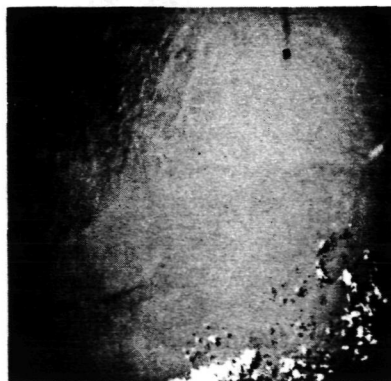
AST-24-2014



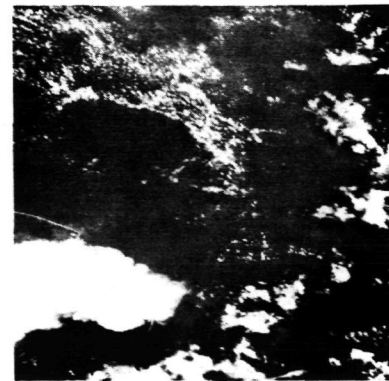
AST-24-2015



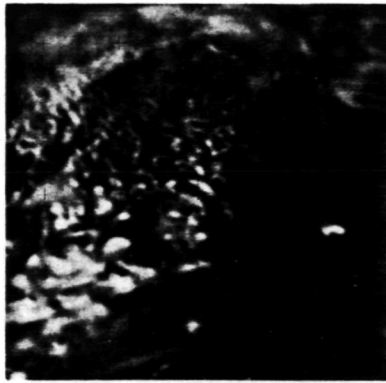
AST-24-2016



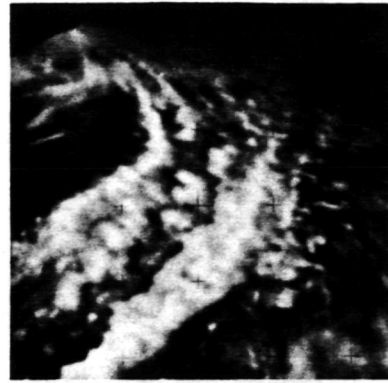
AST-24-2017



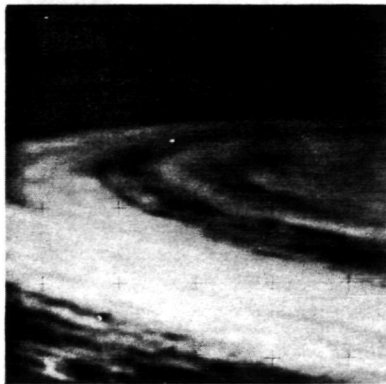
AST-24-2018



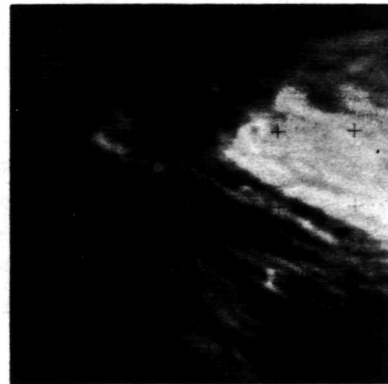
AST-25-2165



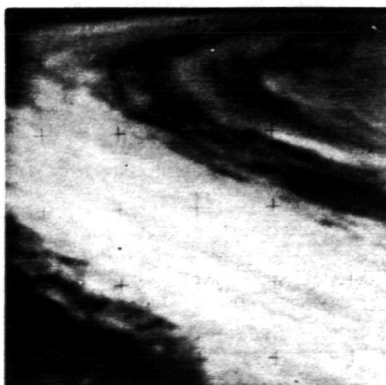
AST-25-2166



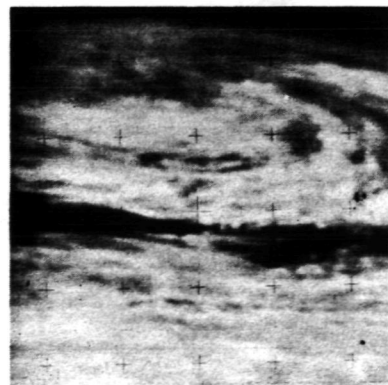
AST-25-2167



AST-25-2168



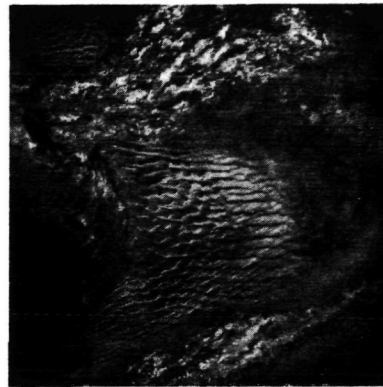
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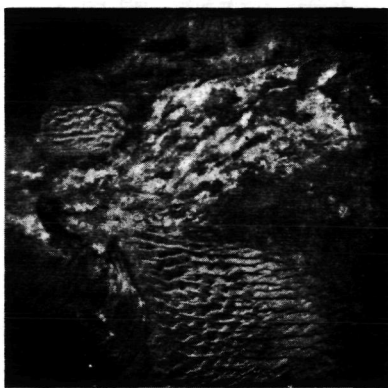
AST-25-2170



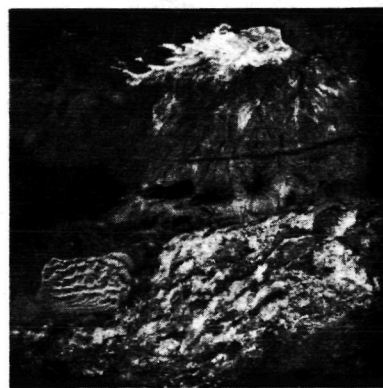
AST-27-2331



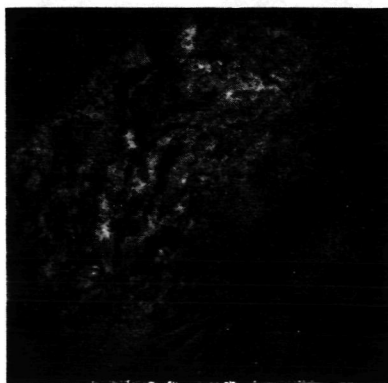
AST-27-2340



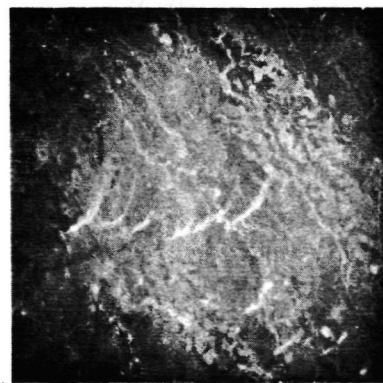
AST-27-2341



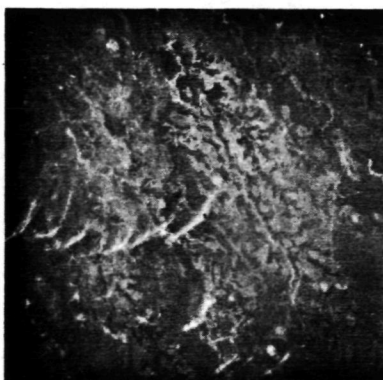
AST-27-2342



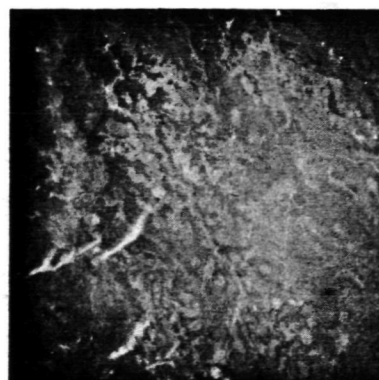
AST-27-2344



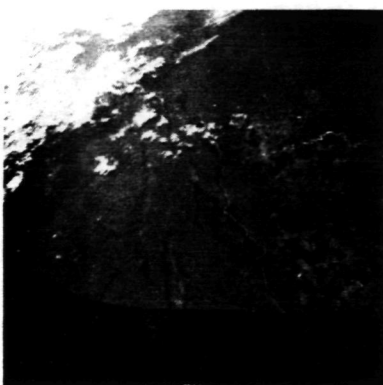
AST-27-2345



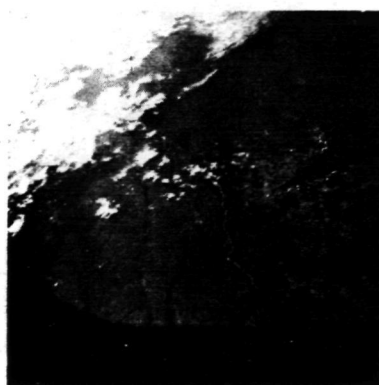
AST-27-2346



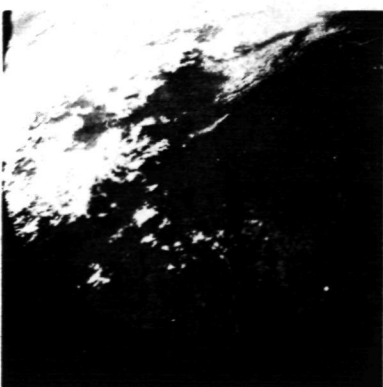
AST-27-2347



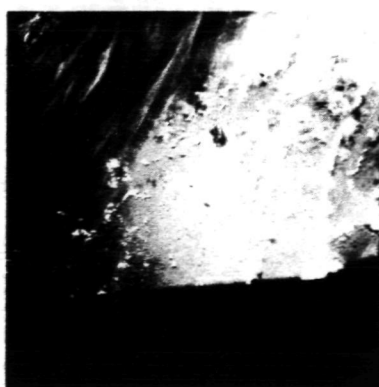
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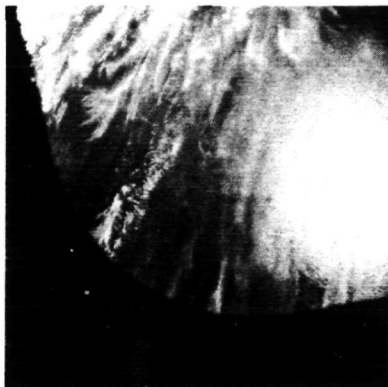
AST-27-2349



AST-27-2350



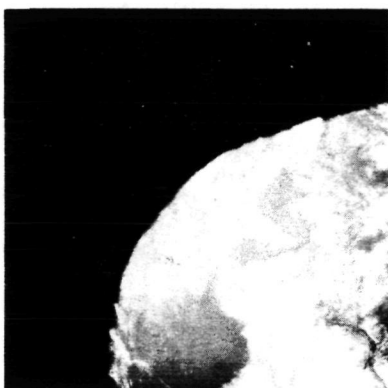
AST-27 2351



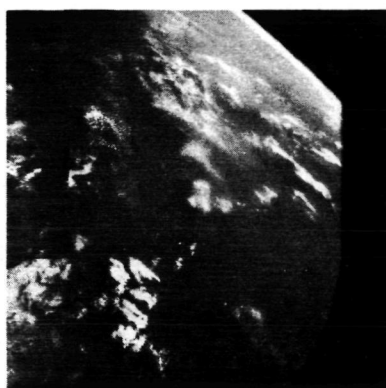
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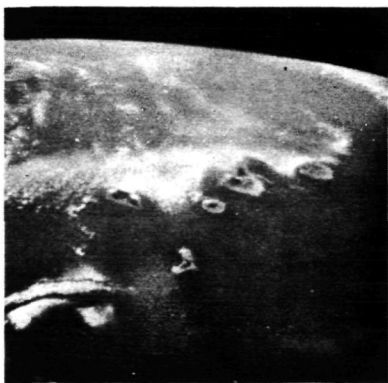
AST-27-2353



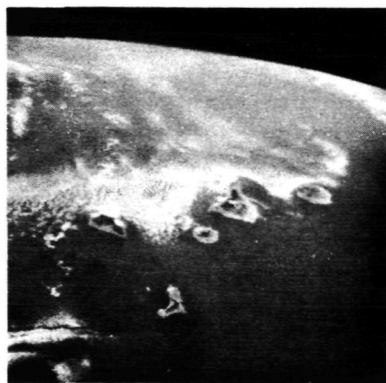
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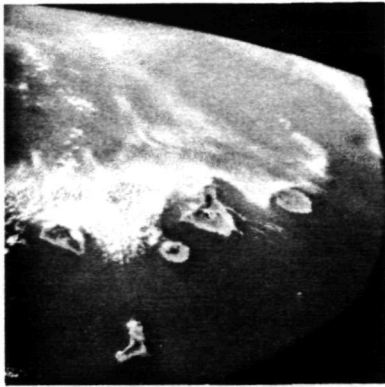
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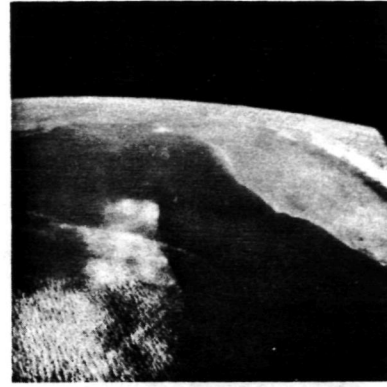
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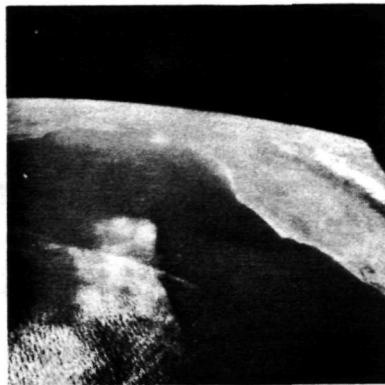
AST-27-2357



AST-27-2358



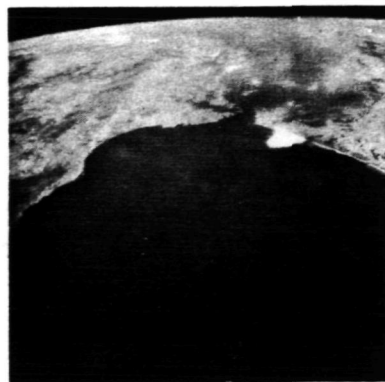
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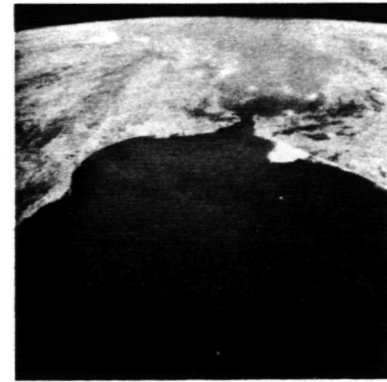
AST-27-2360



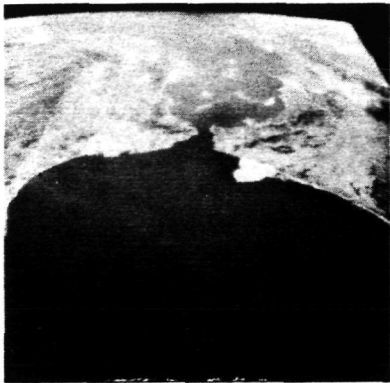
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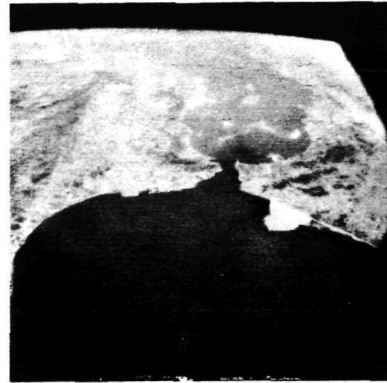
AST-27-2362



AST-27-2363



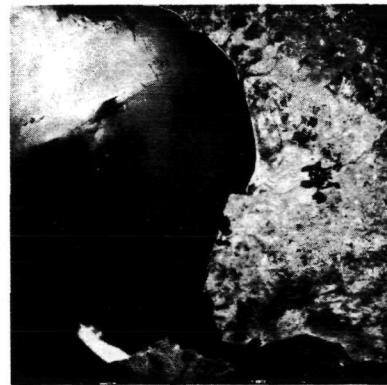
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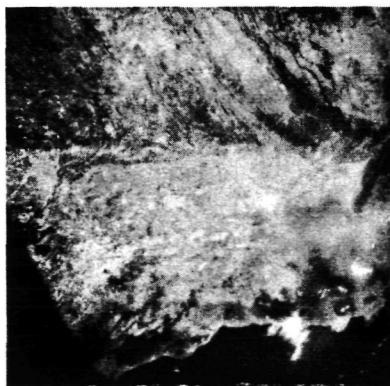
AST-27-2365



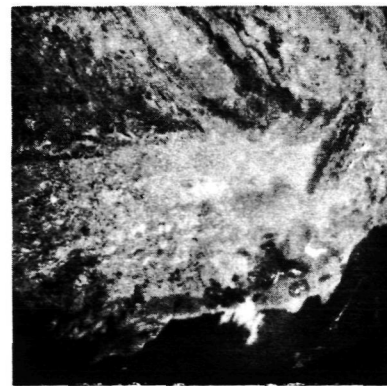
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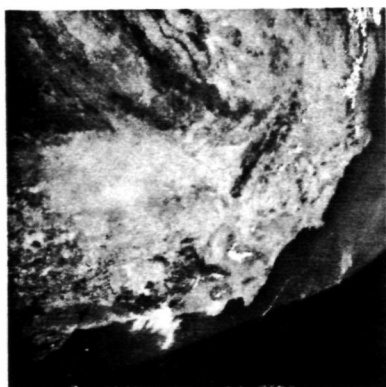
AST-27-2367



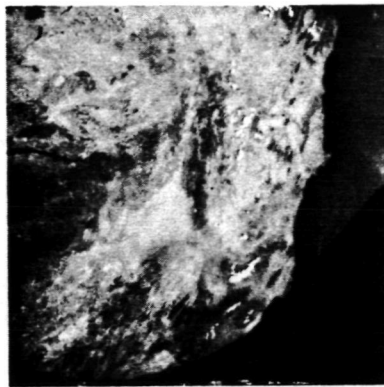
AST-27-2368



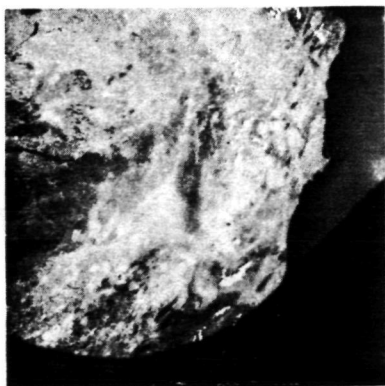
AST-27-2369



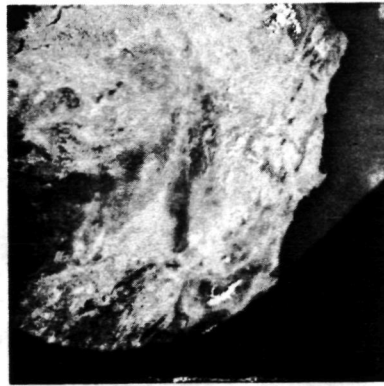
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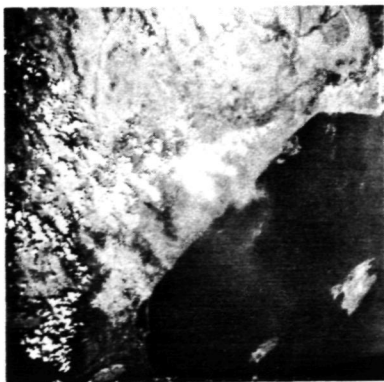
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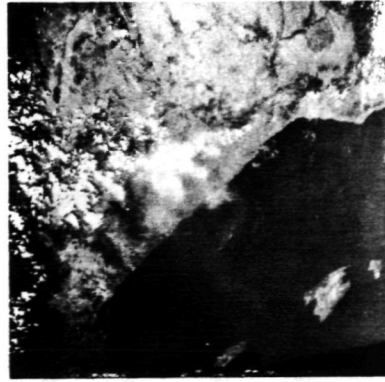
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AST-27-2373



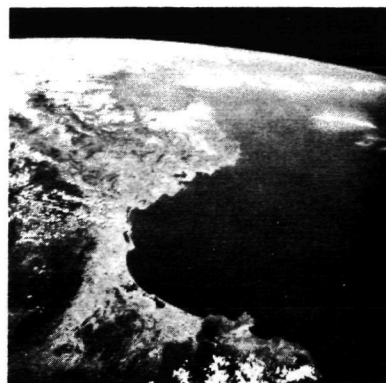
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AST-27-2375



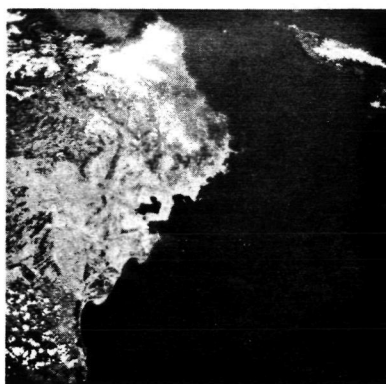
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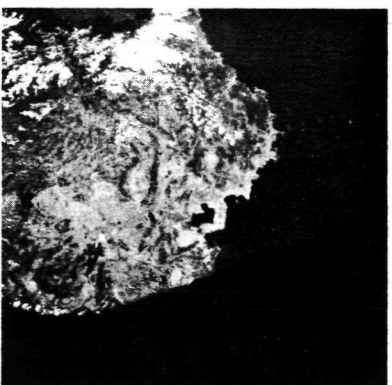
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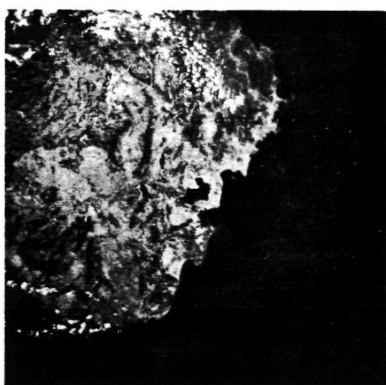
AST-27-2378



AST-27-2379



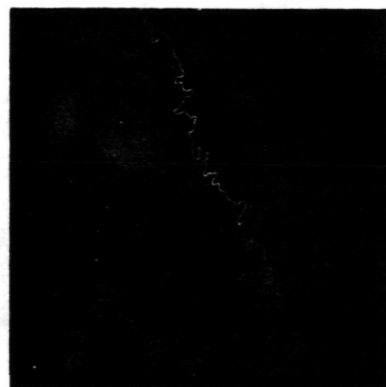
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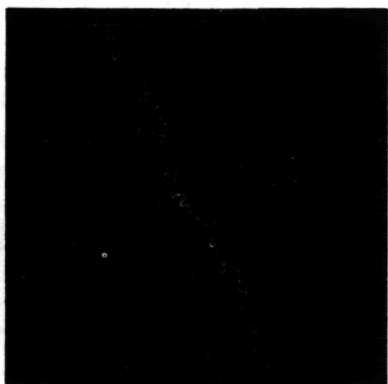
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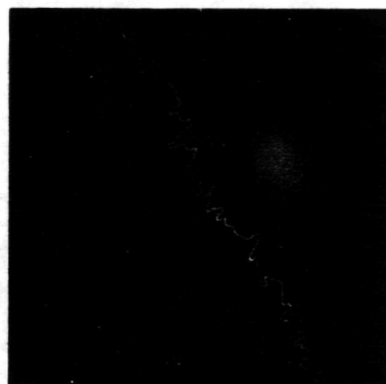
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AST-27-2383



AST-27-2384



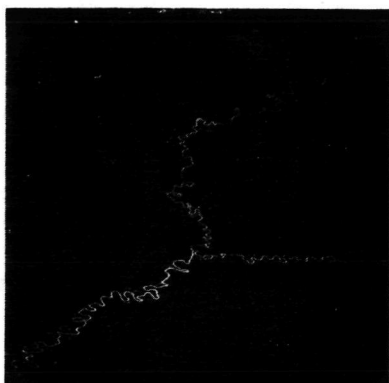
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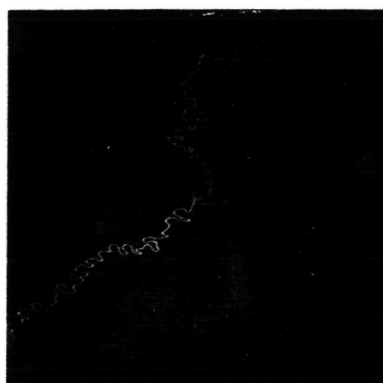
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AST-27-2387



AST-27-2388



AST-27-2389



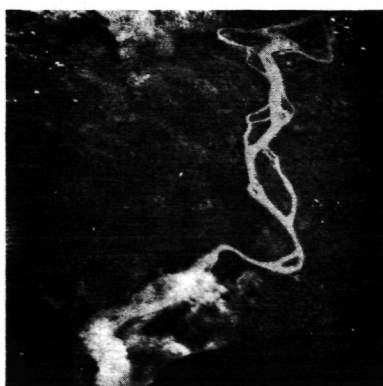
AST-27-2390



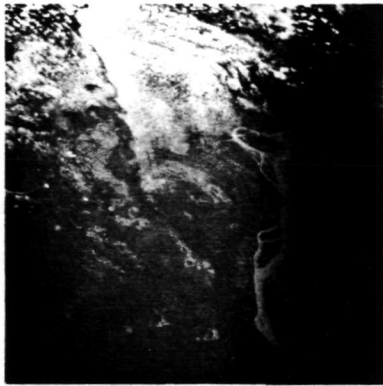
AST-27-2391



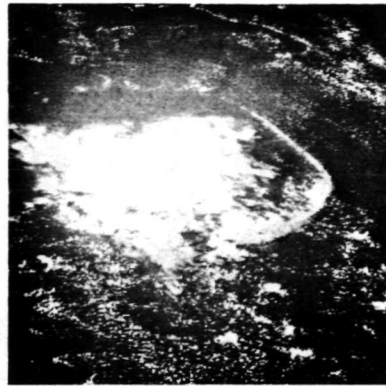
AST-27-2392



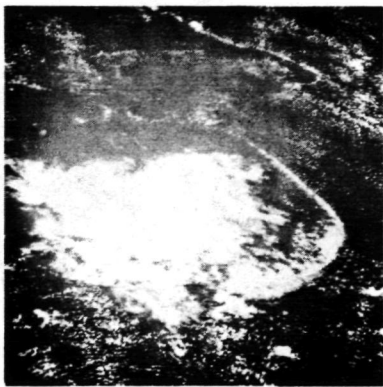
AST-27-2393



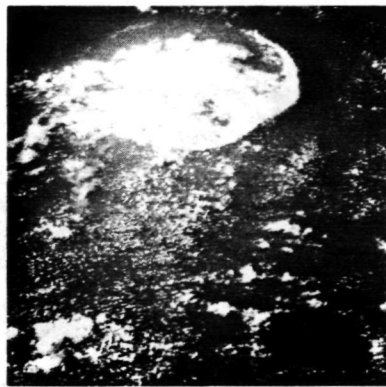
AST-27-2394



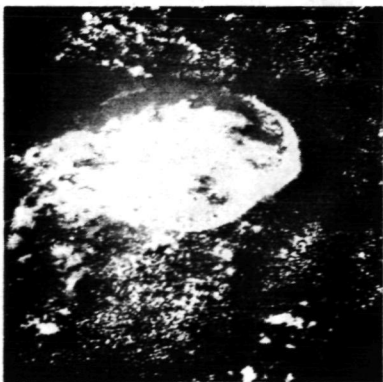
AST-30-2395



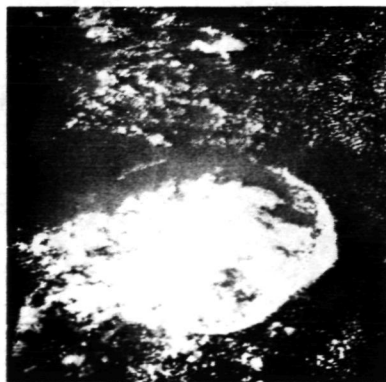
AST-30-2396



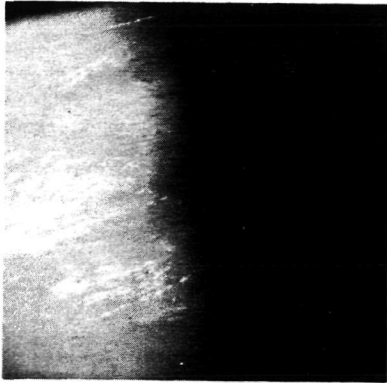
AST-30-2397



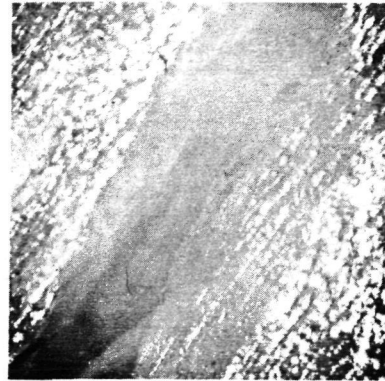
AST-30-2398



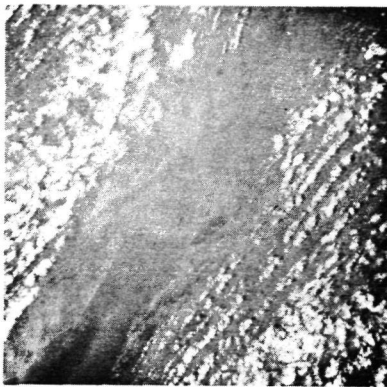
AST-30-2399



AST-30-2542



AST-30-2543



AST-30-2544



AST-30-2545



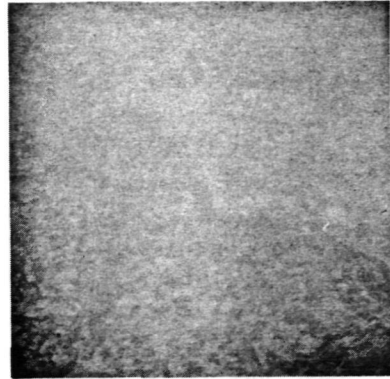
AST-30-2546



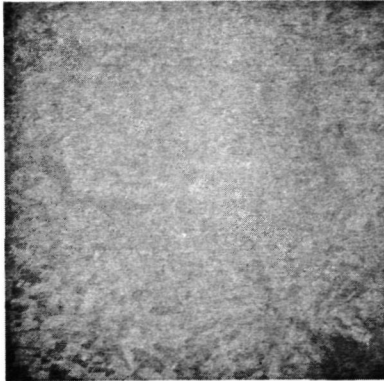
AST-30-2547



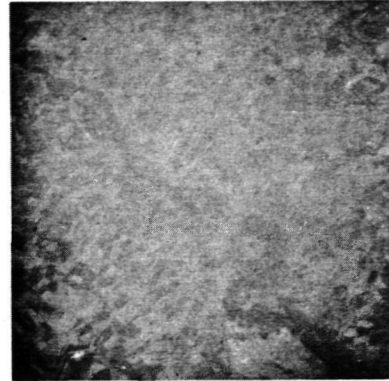
AST-30-2548



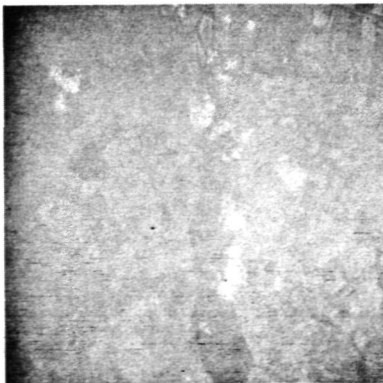
AST-30-2549



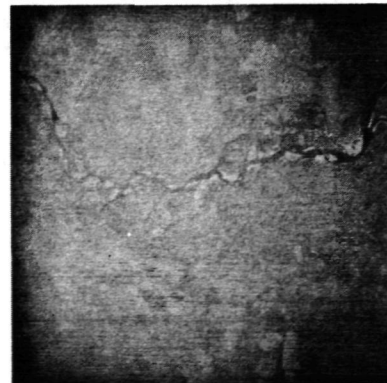
AST-30-2550



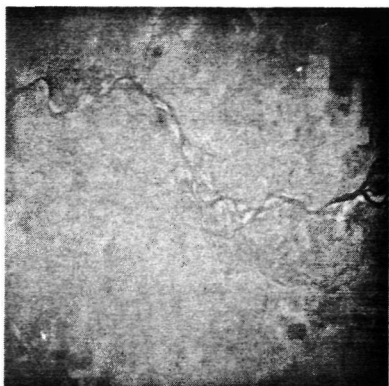
AST-30-2551



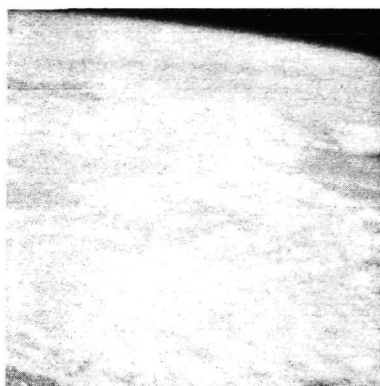
AST-30-2552



AST-30-2553



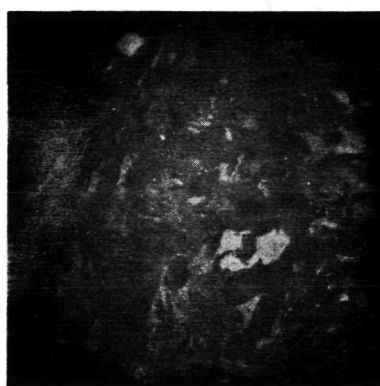
AST-30-2554



AST-30-2555



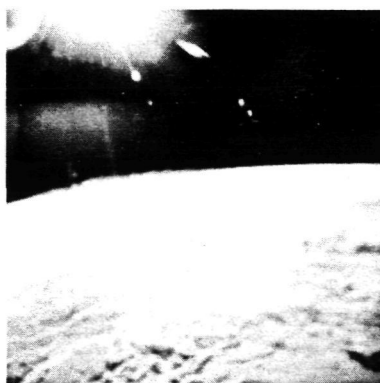
AST-30-2556



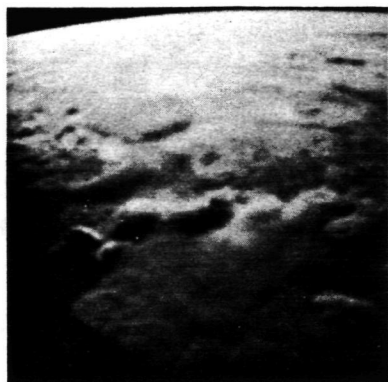
AST-30-2557



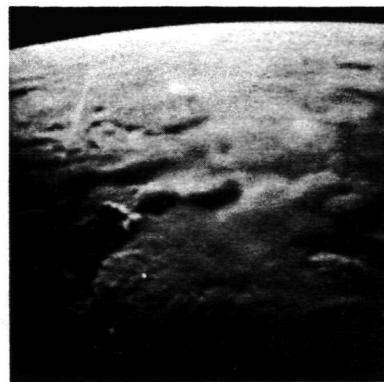
AST-30-2559



AST-30-2560



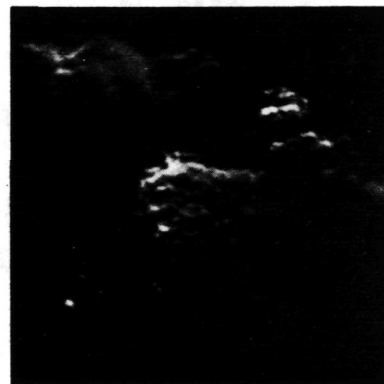
AST-30-2561



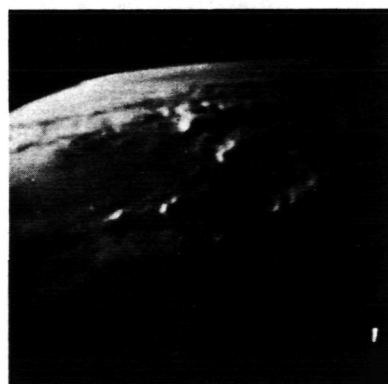
AST-30-2562



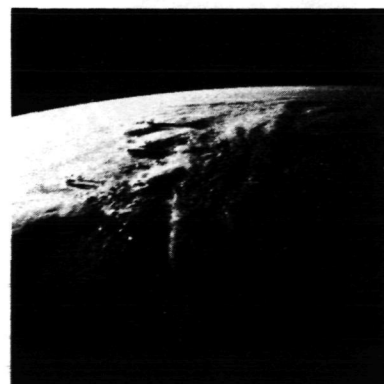
AST-30-2563



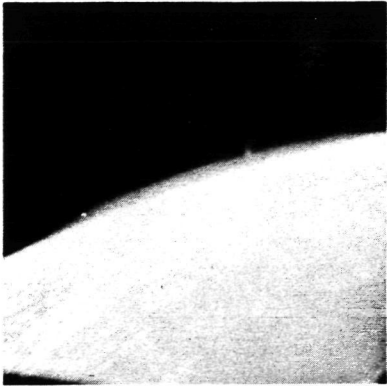
AST-30-2564



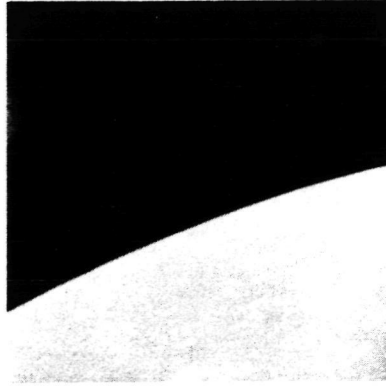
AST-30-2567



AST-30-2568



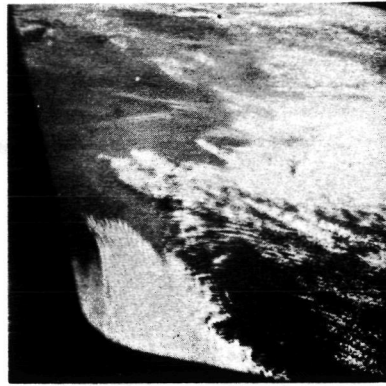
AST-30-2570



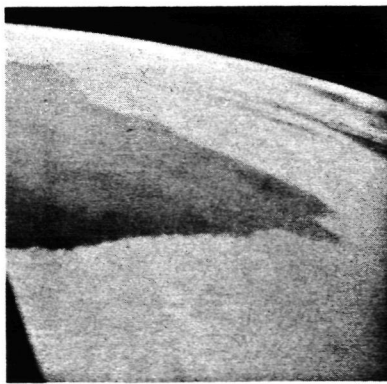
AST-30-2571



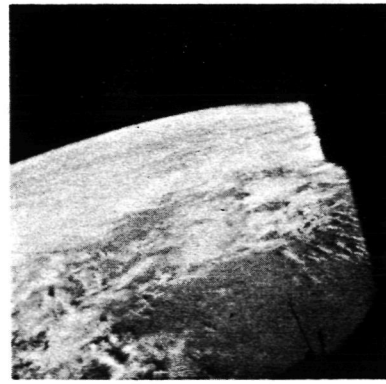
AST-30-2572



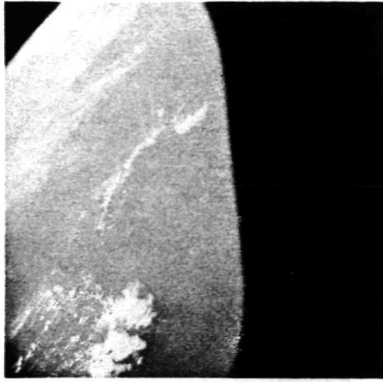
AST-30-2574



AST-30-2575



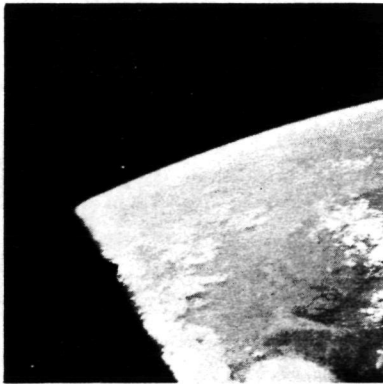
AST-30-2585



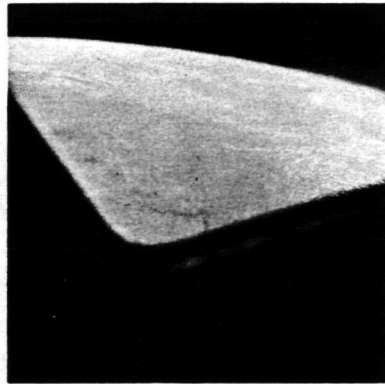
AST-30-2586



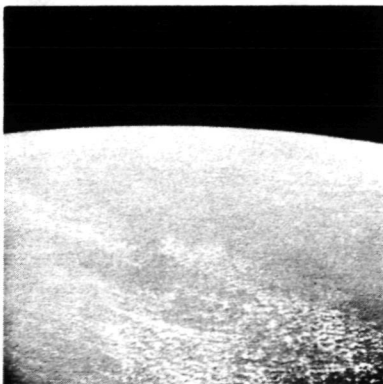
AST-30-2587



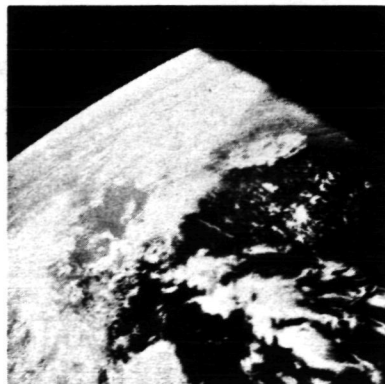
AST-30-2588



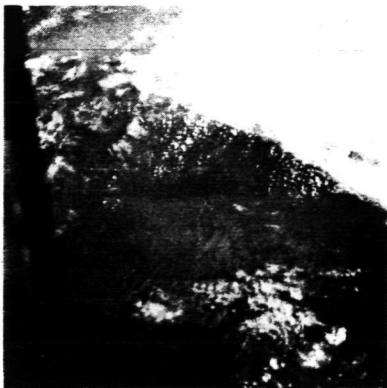
AST-30-2589



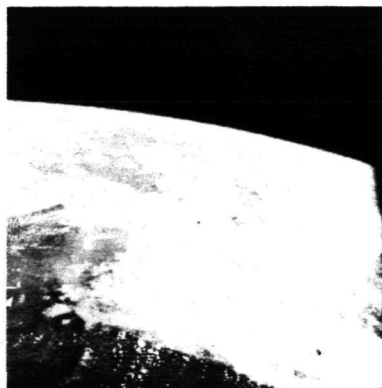
AST-30-2590



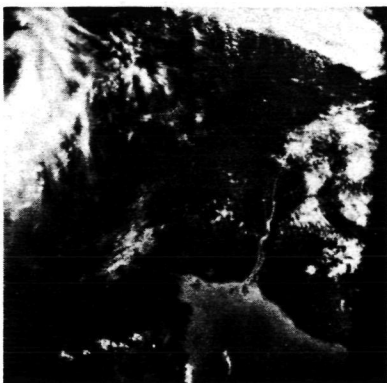
AST-30-2591



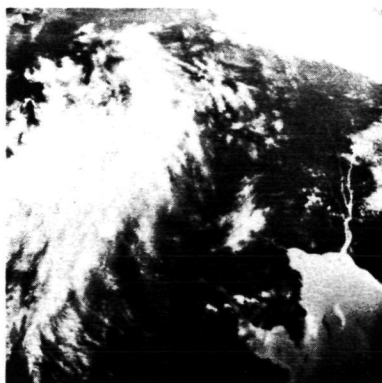
AST-30-2592



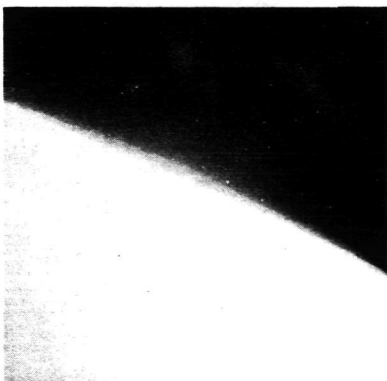
AST-30-2593



AST-30-2594



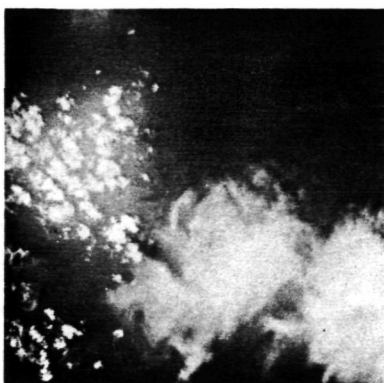
AST-30-2595



AST-30-2596



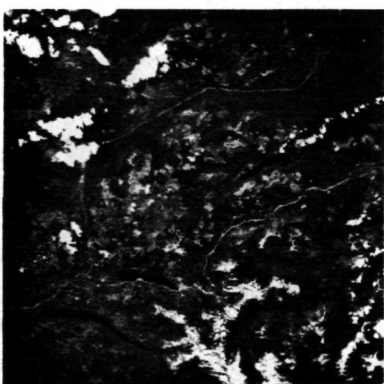
AST-30-2597



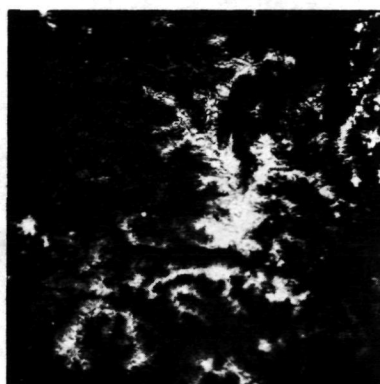
AST-30-2598



AST-30-2599



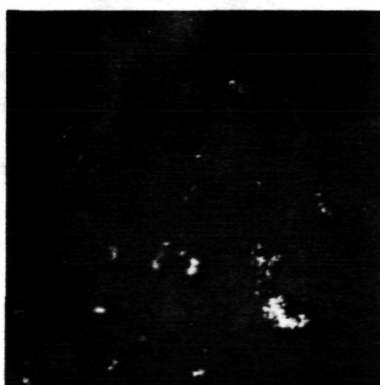
AST-30-2600



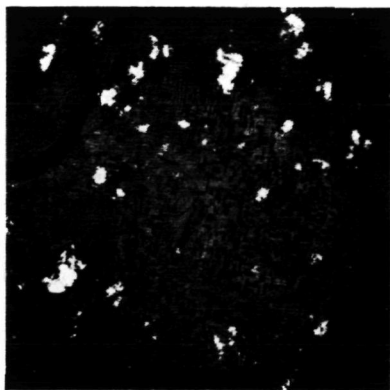
AST-30-2601



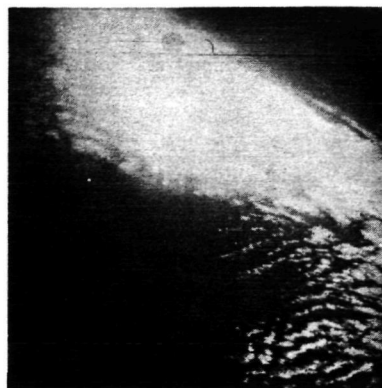
AST-30-2602



AST-30-2603



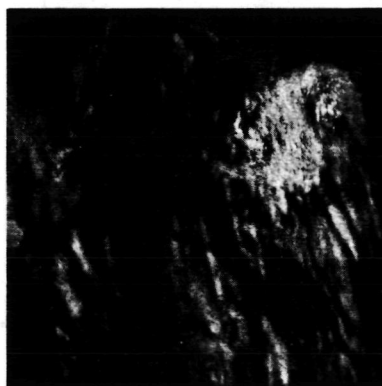
AST-30-2604



AST-30-2605



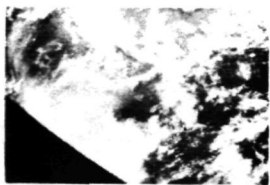
AST-30-2606



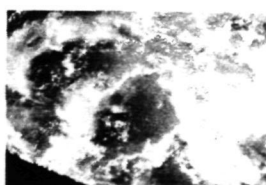
AST-30-2607



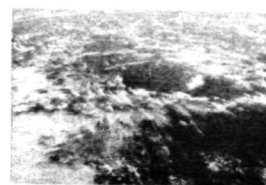
AST-30-2608



AST-6-323



AST-6-324



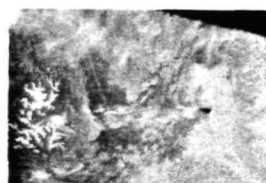
AST-6-325



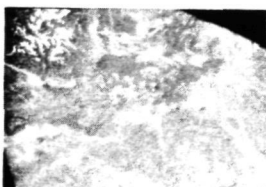
AST-6-326



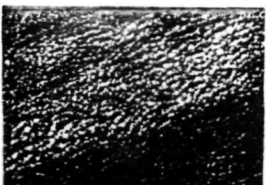
AST-6-327



AST-6-328



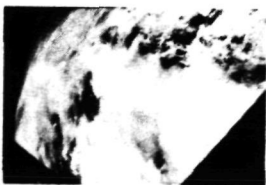
AST-6-329



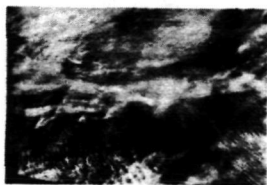
AST-6-330



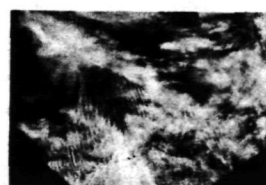
AST-6-331



AST-6-332



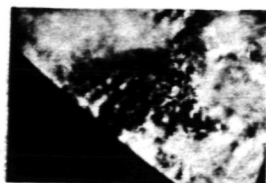
AST-6-333



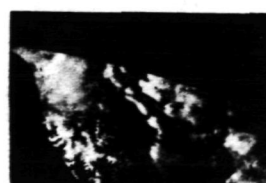
AST-6-334



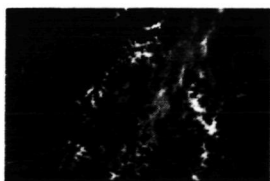
AST-6-335



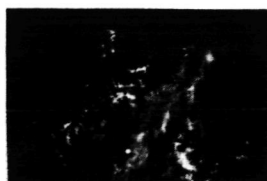
AST-6-336



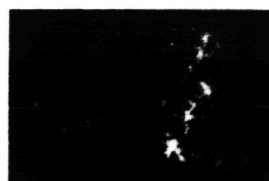
AST-6-337



AST-6-338



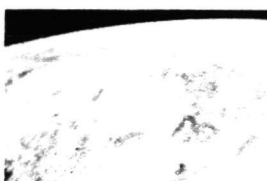
AST-6-339



AST-6-340



AST-7-377



AST-7-378



AST-7-379



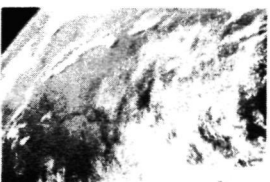
AST-7-380



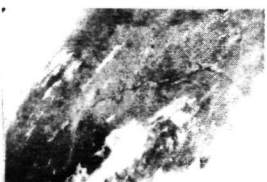
AST-7-381



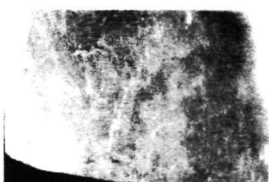
AST-7-382



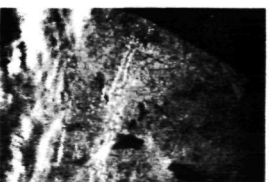
AST-7-383



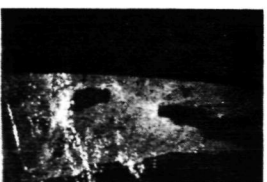
AST-7-384



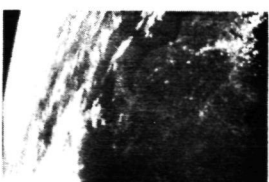
AST-7-385



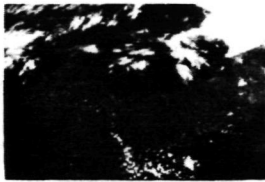
AST-7-386



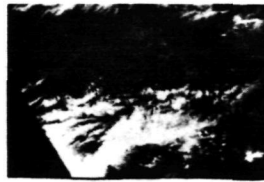
AST-7-387



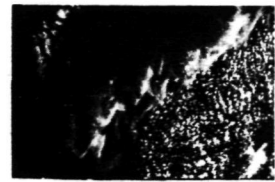
AST-7-388



AST-7-389



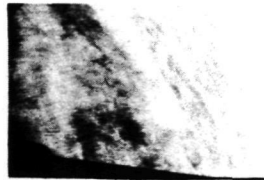
AST-7-390



AST-7-391



AST-7-392



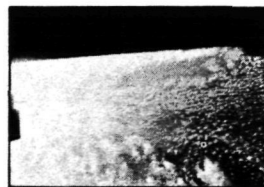
AST-7-393



AST-7-394



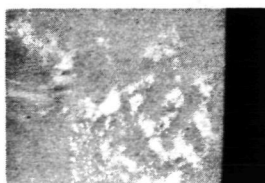
AST-7-396



AST-7-397



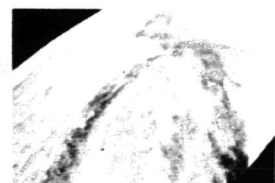
AST-7-398



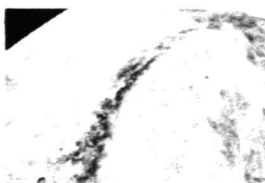
AST-7-399



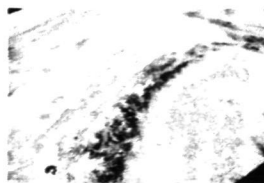
AST-7-400



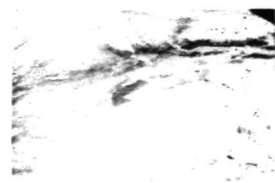
AST-7-401



AST-7-402



AST-7-403



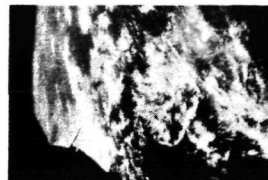
AST-7-404



AST-7-405



AST-7-406



AST-7-414



AST-7-415



AST-7-416



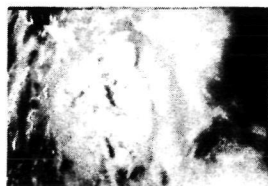
AST-7-417



AST-7-418



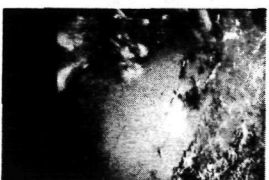
AST-7-425



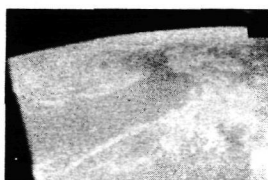
AST-7-426



AST-7-427



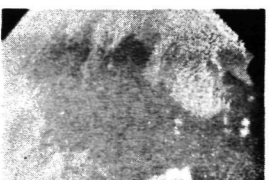
AST-7-428



AST-8-441



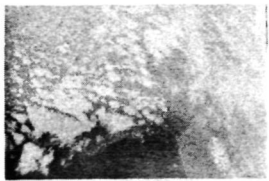
AST-8-442



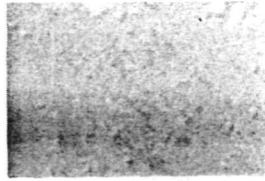
AST-8-443



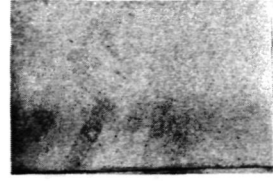
AST-8-444



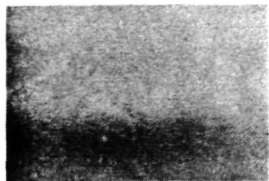
AST-8-445



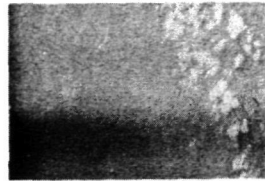
AST-8-446



AST-8-447



AST-8-449



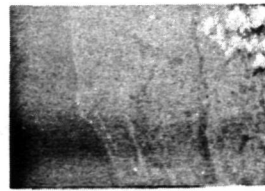
AST-8-450



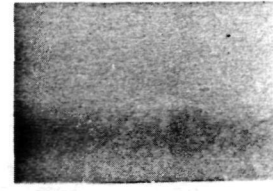
AST-8-451



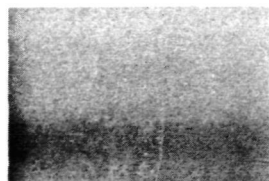
AST-8-454



AST-8-455



AST-8-456



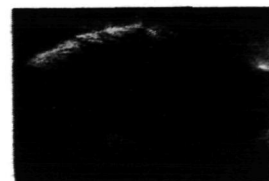
AST-8-457



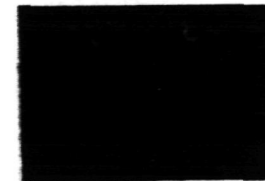
AST-8-458



AST-8-459



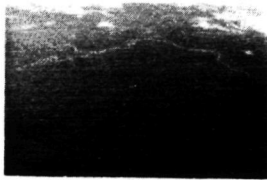
AST-8-471



AST-8-472



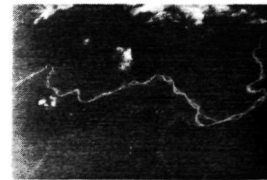
AST-8-473



AST-8-474



AST-8-475



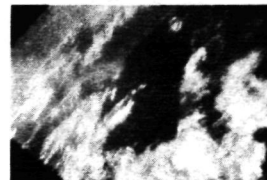
AST-8-476



AST-8-477



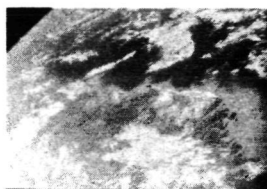
AST-8-478



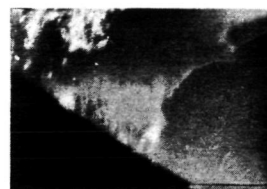
AST-8 479



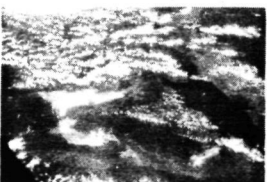
AST-8-480



AST-8-481



AST-8-482



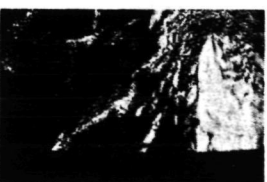
AST-8-495



AST-8-496



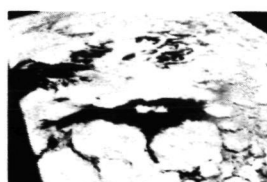
AST-8-497



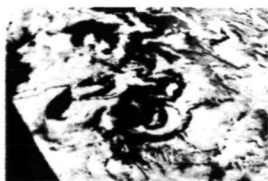
AST-8-498



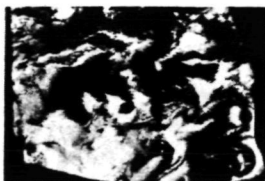
AST-10-576



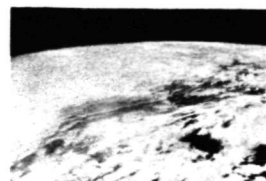
AST-10-577



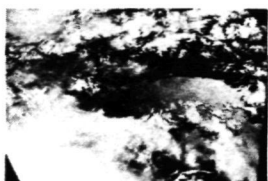
AST-10-578



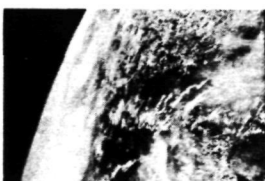
AST-10-579



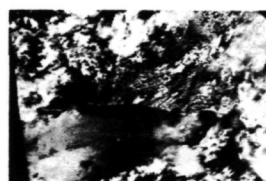
AST-10-580



AST-10-581



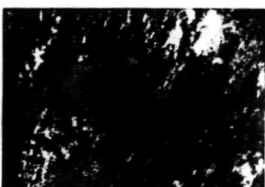
AST-10-582



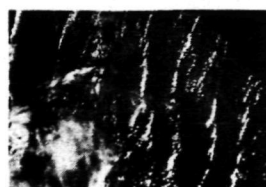
AST-10-583



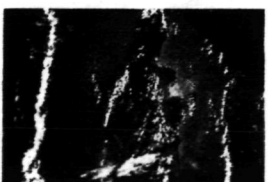
AST-10-584



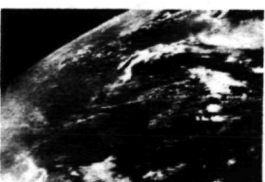
AST-10-585



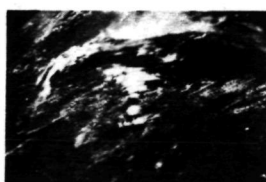
AST-10-586



AST-10-587



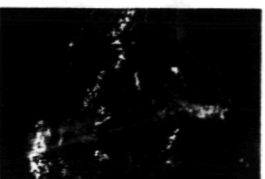
AST-10-588



AST-10-589



AST-10-590



AST-10-591



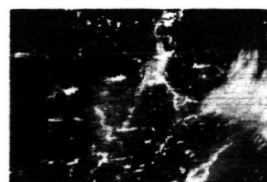
AST-10-592



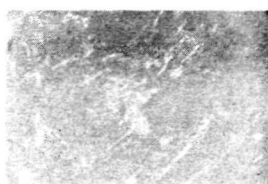
AST-10-593



AST-10-594



AST-10-595



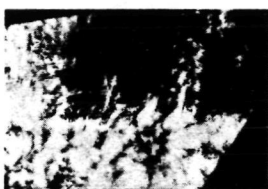
AST-10-596



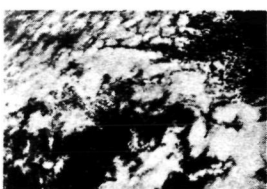
AST-10-597



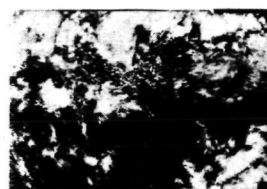
AST-10-599



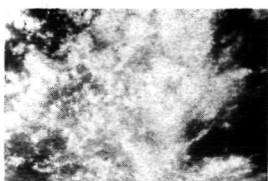
AST-10-600



AST-10-601



AST-10-602



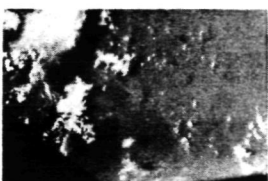
AST-10-603



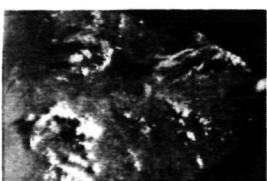
AST-10-604



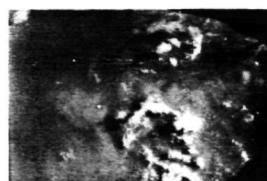
AST-10-605



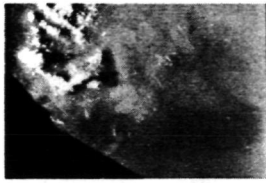
AST-10-606



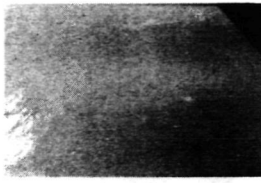
AST-10-607



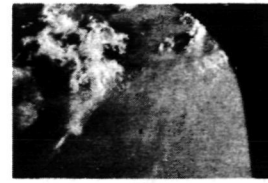
AST-10-608



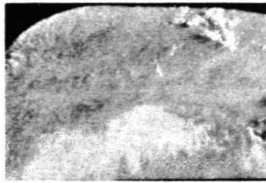
AST-10-609



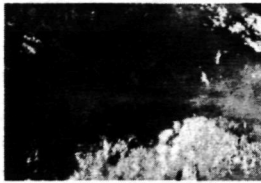
AST-10-610



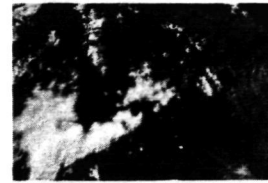
AST-10-611



AST-10-612



AST-10-613



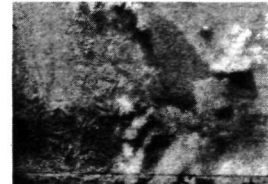
AST-10-614



AST-10-615



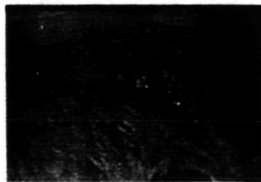
AST-10-616



AST-10-617



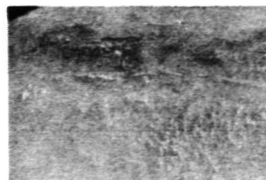
AST-10-618



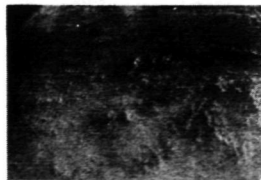
AST-10-619



AST-10-620



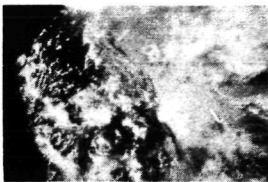
AST-10-621



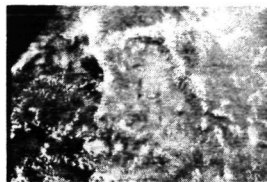
AST-10-622



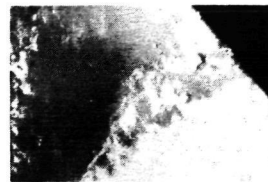
AST-10-624



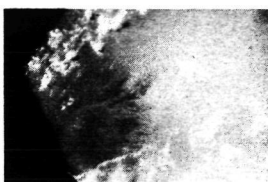
AST-10-625



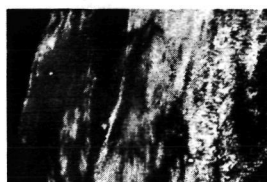
AST-10-626



AST-10-627



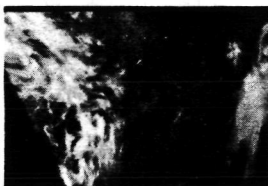
AST-10-628



AST-10-629



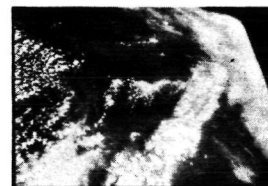
AST-10-630



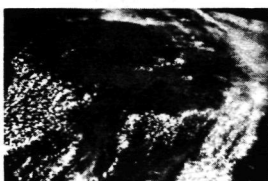
AST-10-631



AST-10-632



AST-10-633



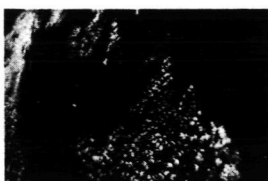
AST-10-634



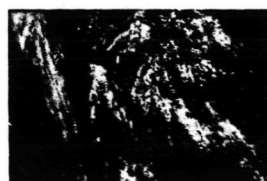
AST-10-635



AST-10-636



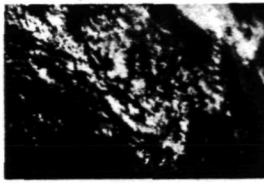
AST-10-637



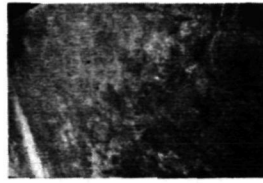
AST-10-638



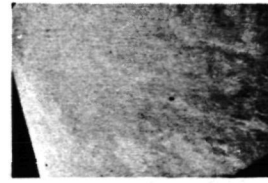
AST-10-639



AST-10-640



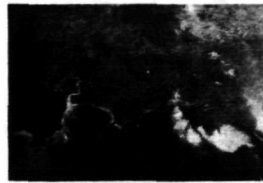
AST-11-645



AST-11-646



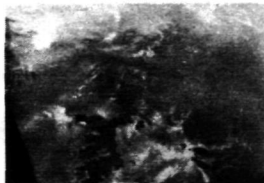
AST-11-647



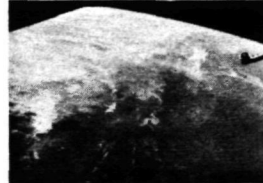
AST-11-648



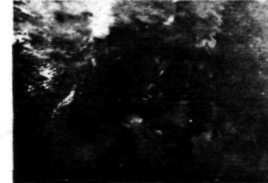
AST-11-649



AST-11-650



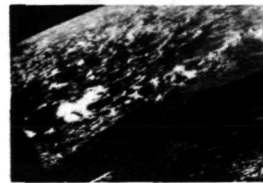
AST-11-651



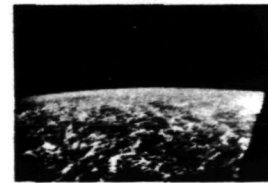
AST-11-652



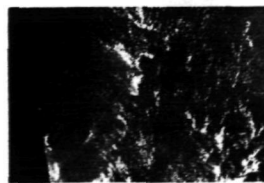
AST-11-653



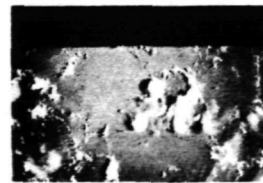
AST-11-654



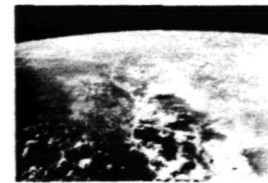
AST-11-655



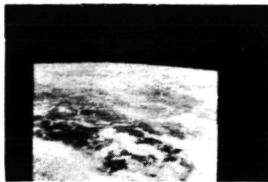
AST-11-656



AST-11-657



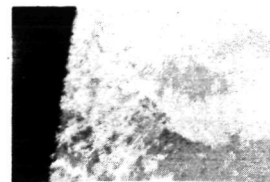
AST-11-658



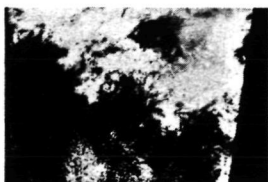
AST-11-659



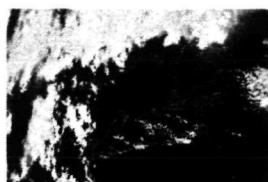
AST-11-662



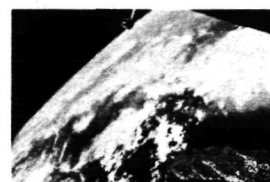
AST-11-663



AST-11-664



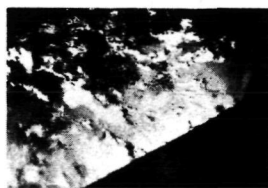
AST-11-665



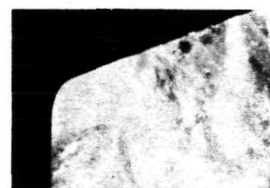
AST-11-666



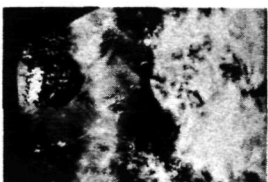
AST-11-667



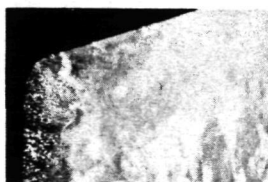
AST-11-669



AST-11-670



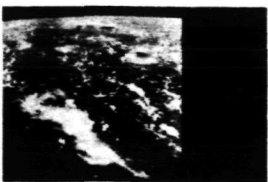
AST-11-671



AST-11-672



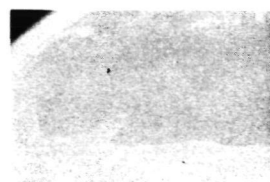
AST-11-673



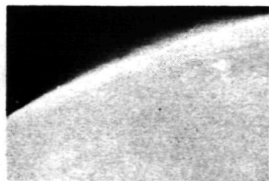
AST-11-674



AST-11-675



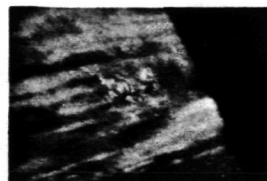
AST-11-676



AST-11-677



AST-11-678



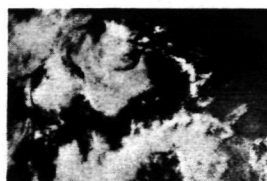
AST-11-680



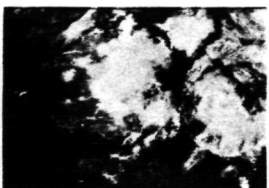
AST-11-681



AST-11-682



AST-11-683



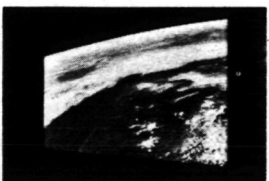
AST-11-684



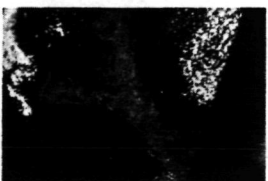
AST-11-685



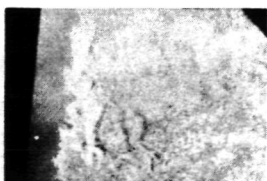
AST-11-686



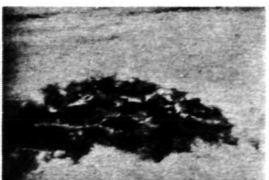
AST-11-687



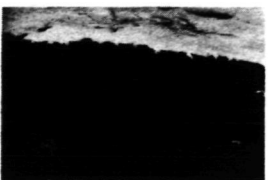
AST-11-688



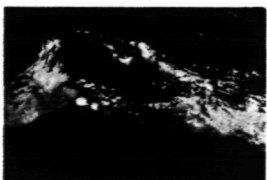
AST-11-689



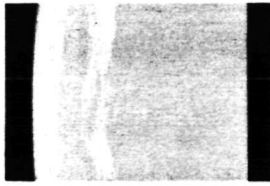
AST-11-696



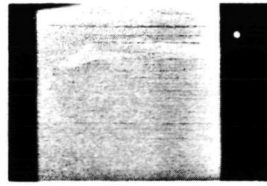
AST-11-697



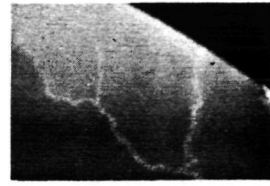
AST-11-698



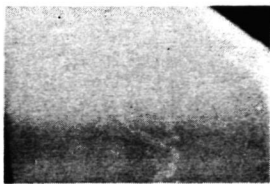
AST-11-700



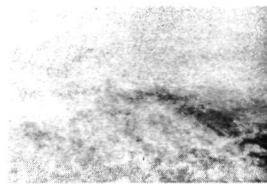
AST-11-701



AST-11-702



AST-11-703



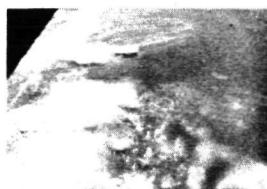
AST-31-2625



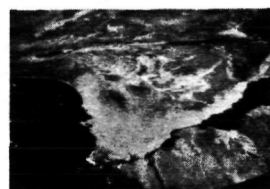
AST-31-2626



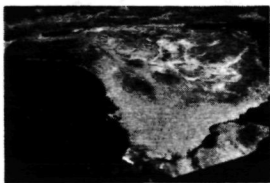
AST-31-2627



AST-31-2628



AST-31-2633



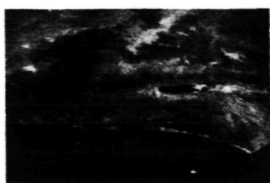
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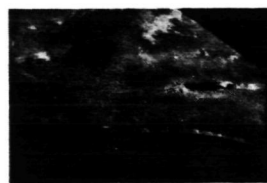
AST-31-2635



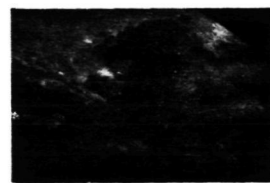
AST-31-2636



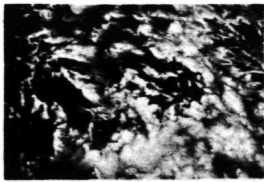
AST-31-2637



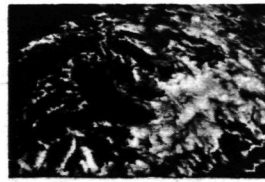
AST-31-2638



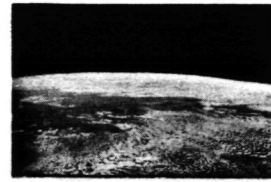
AST-31-2639



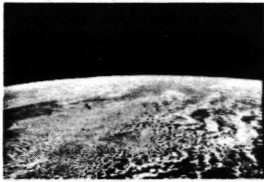
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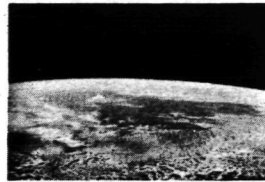
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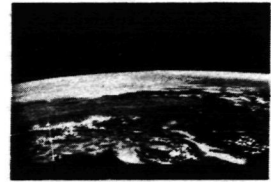
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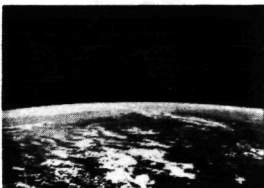
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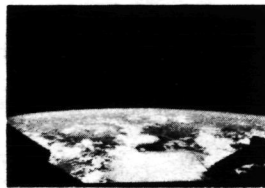
AST-31-2650



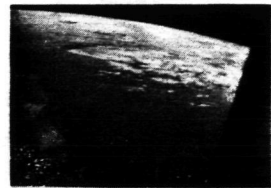
AST-31-2651



AST-31-2652



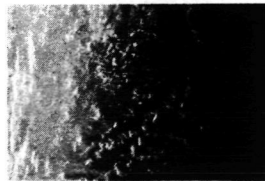
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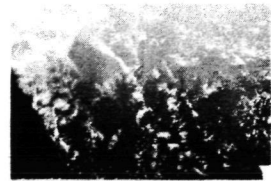
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AST-31-2655



AST-31-2656



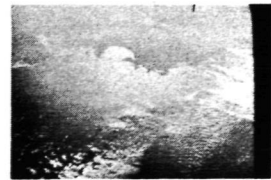
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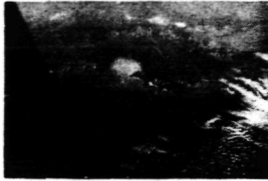
AST-31-2658



AST-31-2659



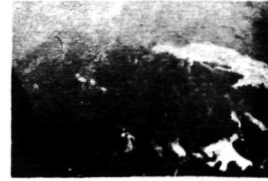
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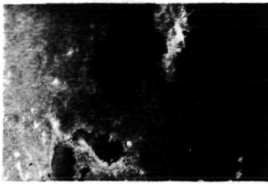
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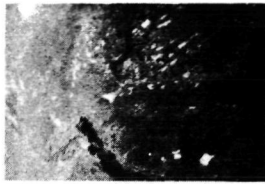
AST-31-2662



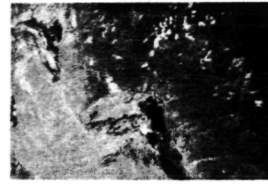
AST-31-2663



AST-31-2664



AST-31-2665



AST-31-2666



AST-31-2667



AST-31-2668



AST-31-2669



AST-31-2670